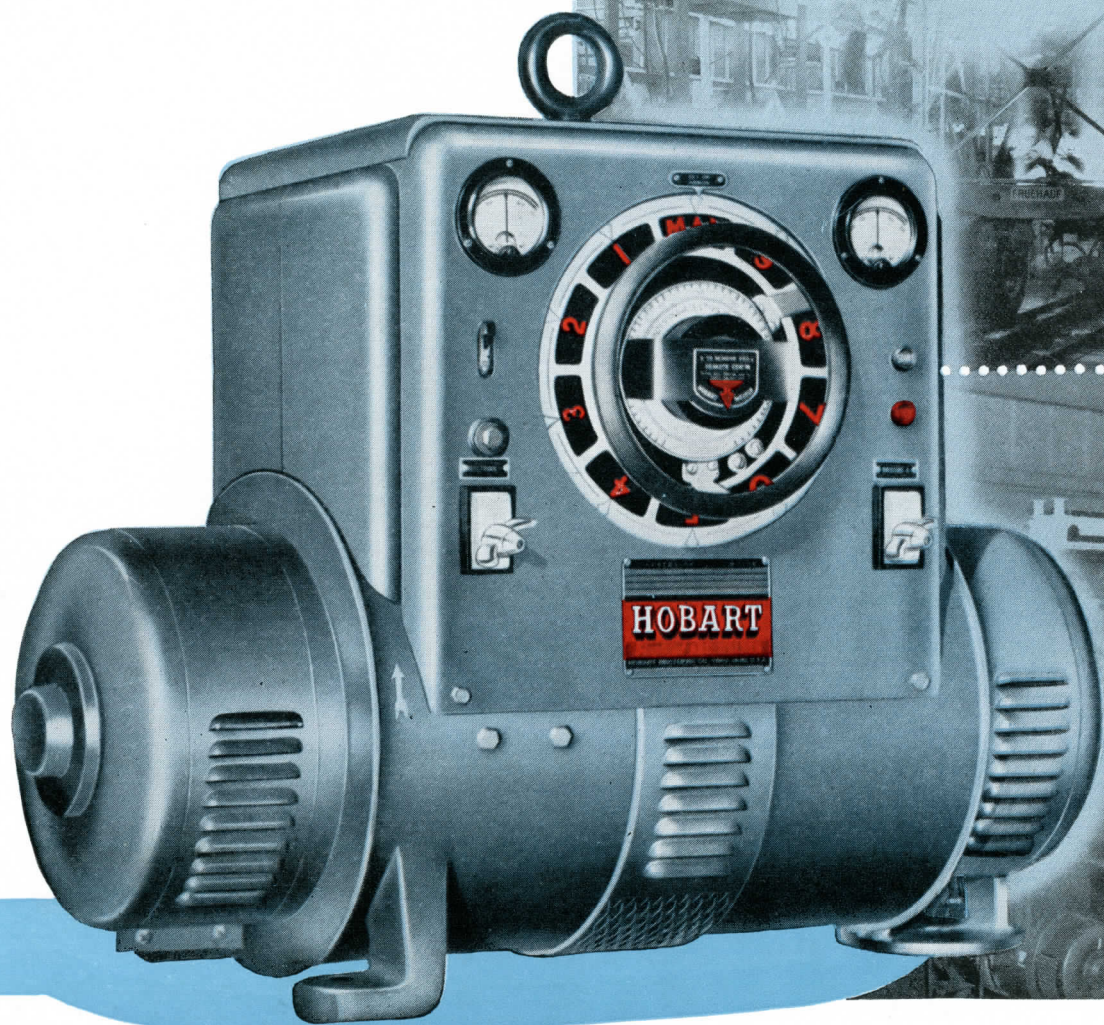


*The New
Hobart*

ARC WELDERS





Hobart *the fastest selling arc welder on the market today*

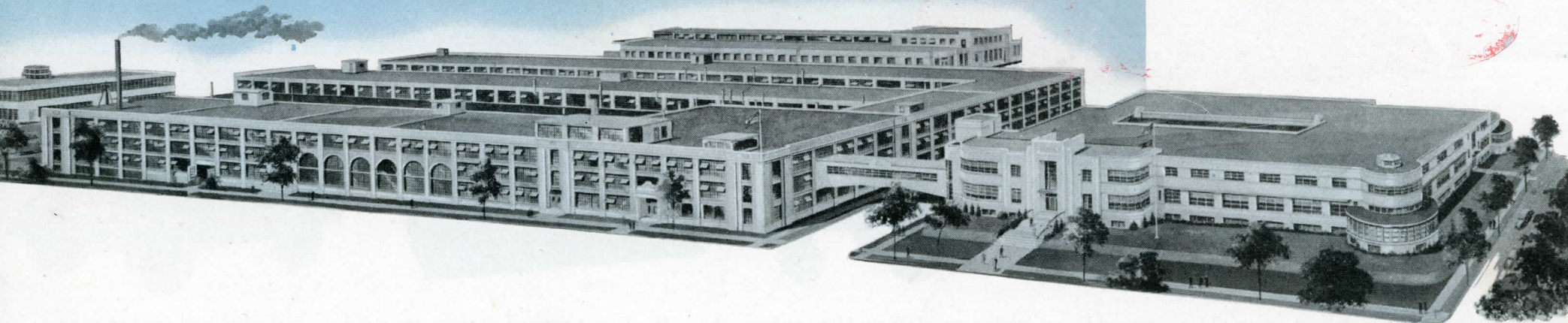
YOU who realize the importance of "background" in determining the worth of any product, yet who may not have had previous experience with any of the Hobart Industries, will appreciate the picture and brief statement on this page.

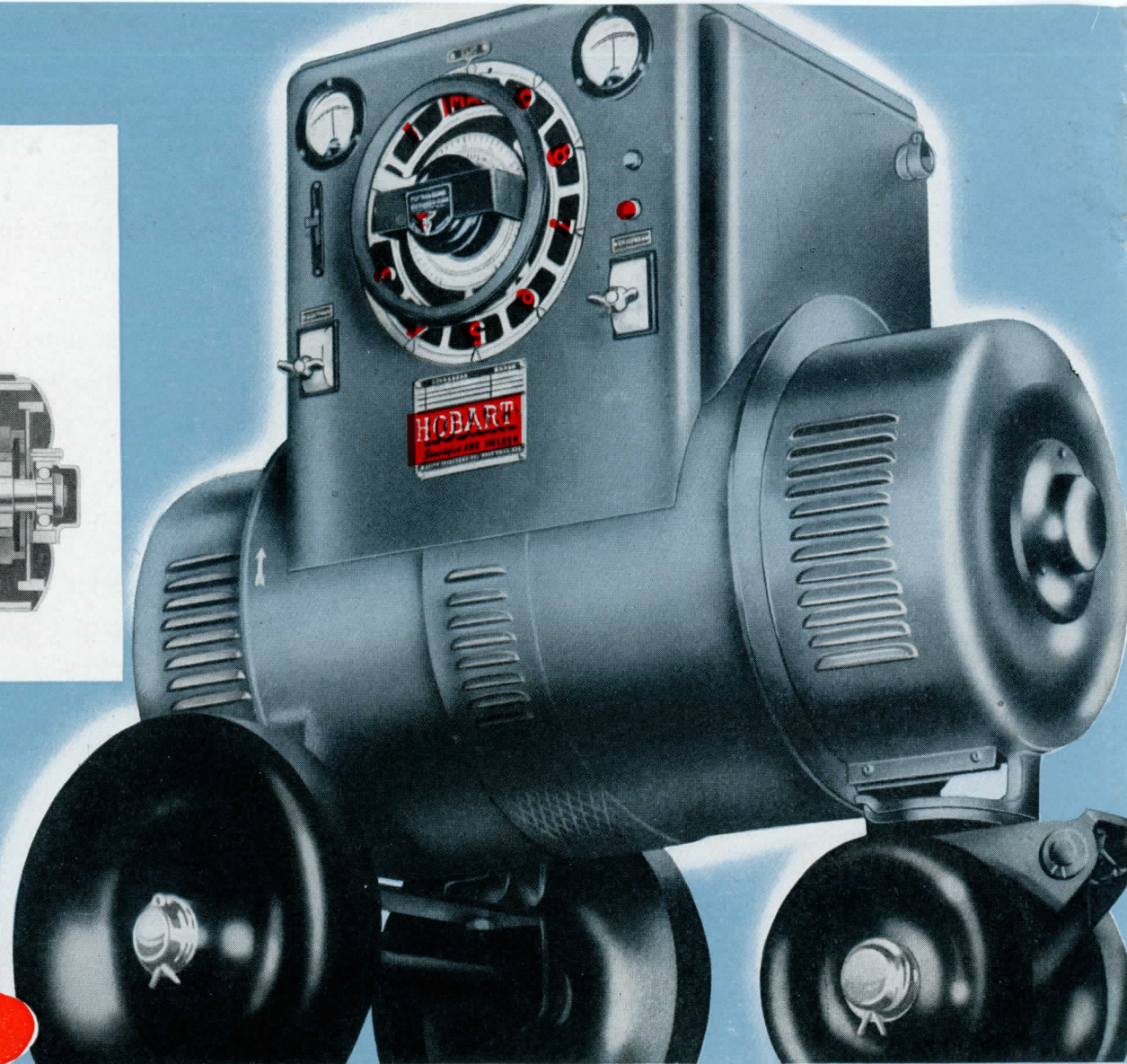
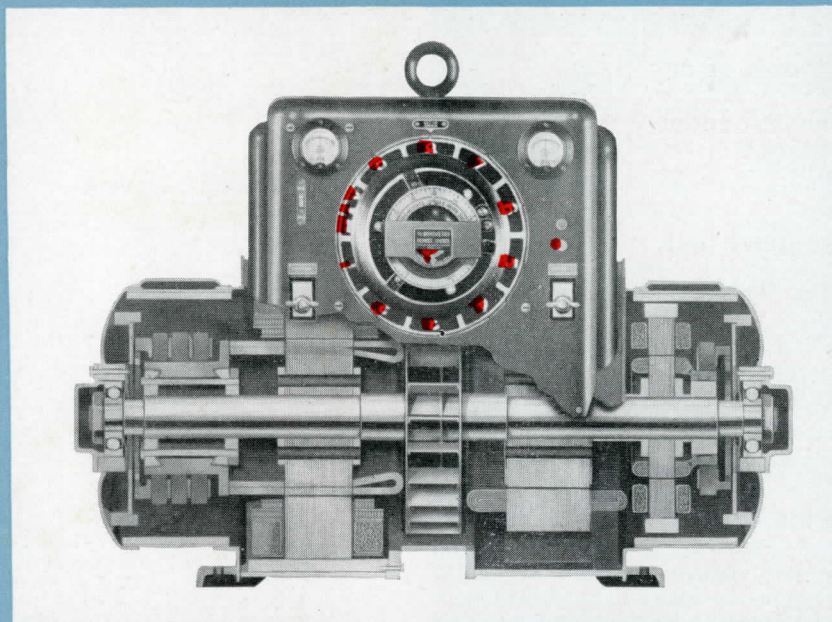
Hobart Multi-Range Arc Welders of today have developed from an original background of pioneering in the electrical field by C. C. Hobart, Sr., plus half a century of successful experience designing and manufacturing electrical machinery on the part of Mr. Hobart and his sons.

That experience, climaxed by a decade of heavy concentration on the improvement of Arc Welding Equipment, is back of the big, modern factory group shown below in which is provided every modern facility for producing high quality equipment in large volume to meet a rapidly growing demand.

Enthusiastic customers in nearly every type of industry will back up the statement that your purchase and use of Hobart Arc Welding Equipment, Electrodes and Supplies can result only in a permanently pleasant, profitable experience on your part.

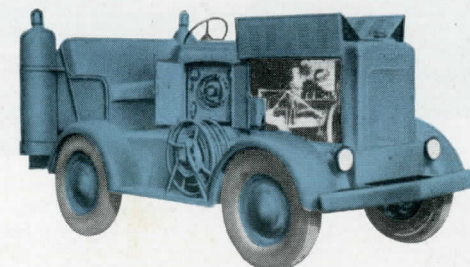
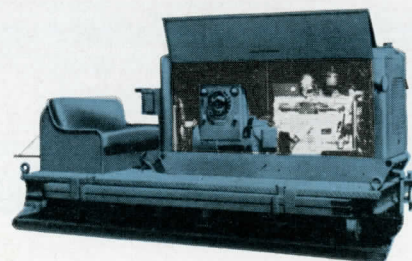
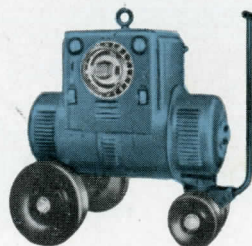
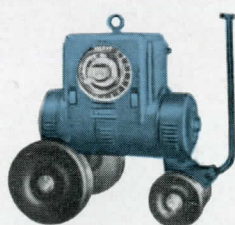
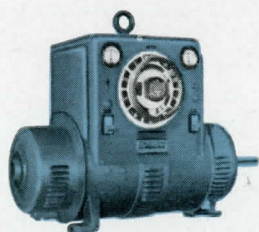
HOBART BROTHERS CO., BOX EW-130 TROY, OHIO
One of the World's Largest Manufacturers of Arc Welding Equipment





No matter what your welding requirements may be—you'll do well to...

Choose a Hobart



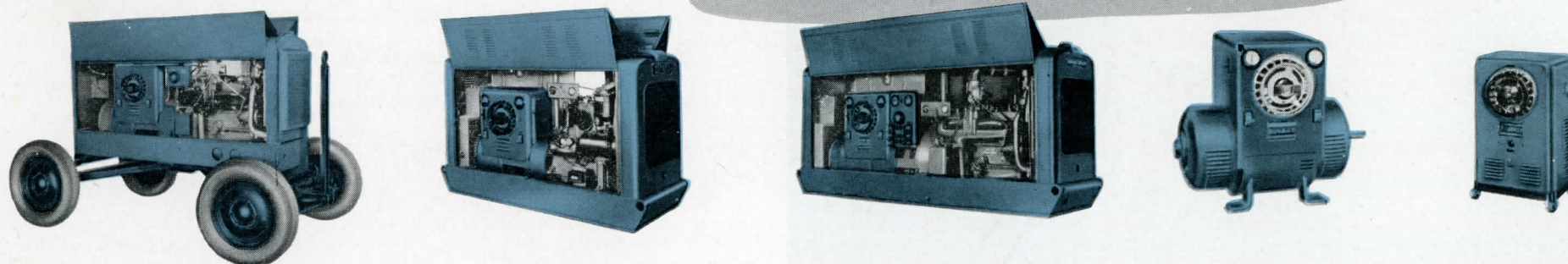
Electric motor driven arc welders, portable or stationary, 150 to 600 ampere sizes • Gas powered mobile arc welders, rail type and tractor type

An Achievement in arc welder design

"Improve your product by means of arc welding," has long been one of the slogans of the industry, and Hobart engineers are frequently described as "doctors who take their own medicine." That's because Hobart Arc Welders are all welded steel construction.

It is this construction that has made possible the production of welding machines with such outstanding capacity for performance and endurance in such remarkably compact and lightweight units, while maintaining proved standards with respect to ample use of copper and electrical steel and adhering to safe, long lived, normal operating speed.

Inside as well as outside, the Hobart design is noteworthy because of the attention given to symmetry and balance in location of parts and in general conformation. From the cutaway view in the center spread, it is apparent that all such details have had painstaking and ingenious attention . . . but read the interesting details about Hobart Arc Welder design in the following pages and you'll agree that Hobart is "as far ahead as a modern streamlined train."



trailer type gasoline engine driven welders 200 amps. to 600 amps sizes • auxiliary power models • generators only • transformer type A. C. welders

You Get 1000 Combinations of Voltage and Current with this Hobart

Multi-Range Control

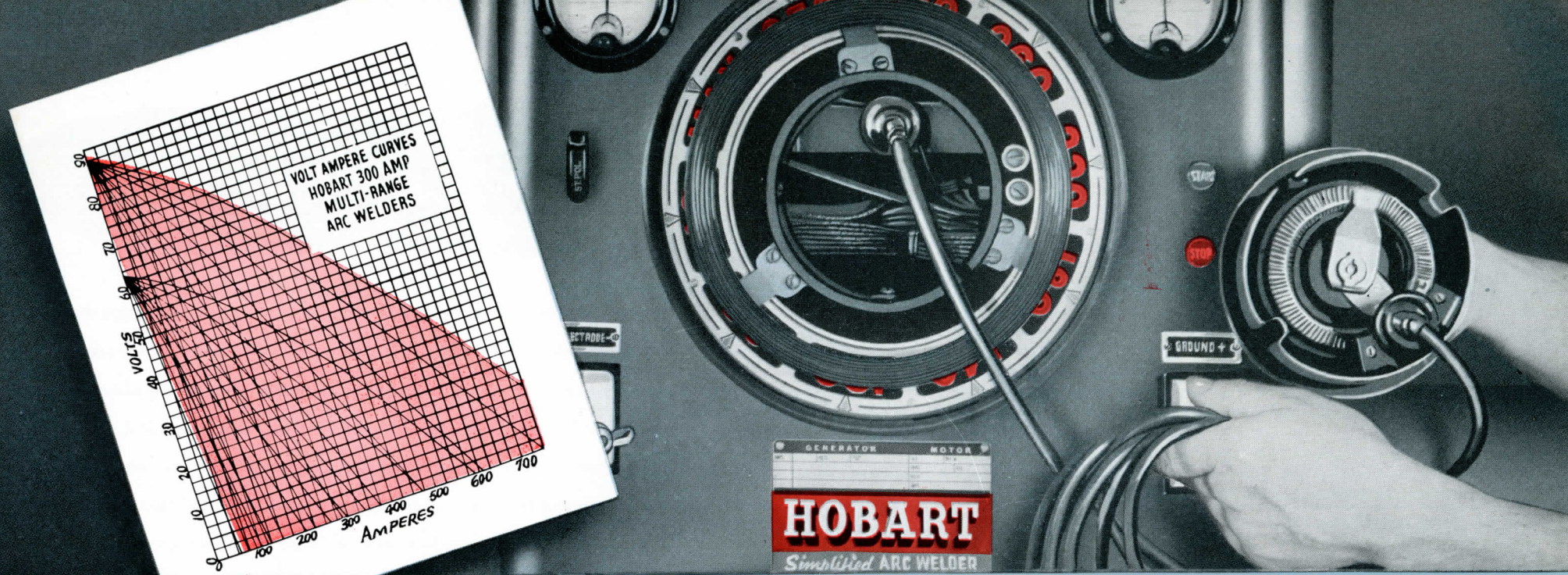


Always ahead of anticipated developments in a comparatively young and growing industry, Hobart provides flexibility yet simplicity of volt-ampere adjustment that protects you against the possibility of early obsolescence.

Multi-Range Dual Control makes it easy for the operator to adjust volt-ampere relationship to such degree as may be required by any present or future welding application or for use of all present or forthcoming electrodes.

The large range wheel on the front of the control panel corresponds to the "station selector" of a modern radio receiver, while the volt-amp adjuster located inside the wheel corresponds to the radio "volume control."

The ability to make such fine adjustment (1,000 possible combinations) is as essential for the achievement of best welding results under all conditions as is the adjustment of volume to best radio reception under all conditions.



Close Volt-Ampere Control *Like Ten Arc Welders in One*

With 10 overlapping ranges of welding current and 100 steps of fine adjustment in each range, Hobart gives you your choice of 1,000 combinations. It is inconceivable that more should ever be desired because oscillograph tests show that there is not a single "dead spot" in the entire welding range of the modern Hobart Multi-Range Arc Welder.

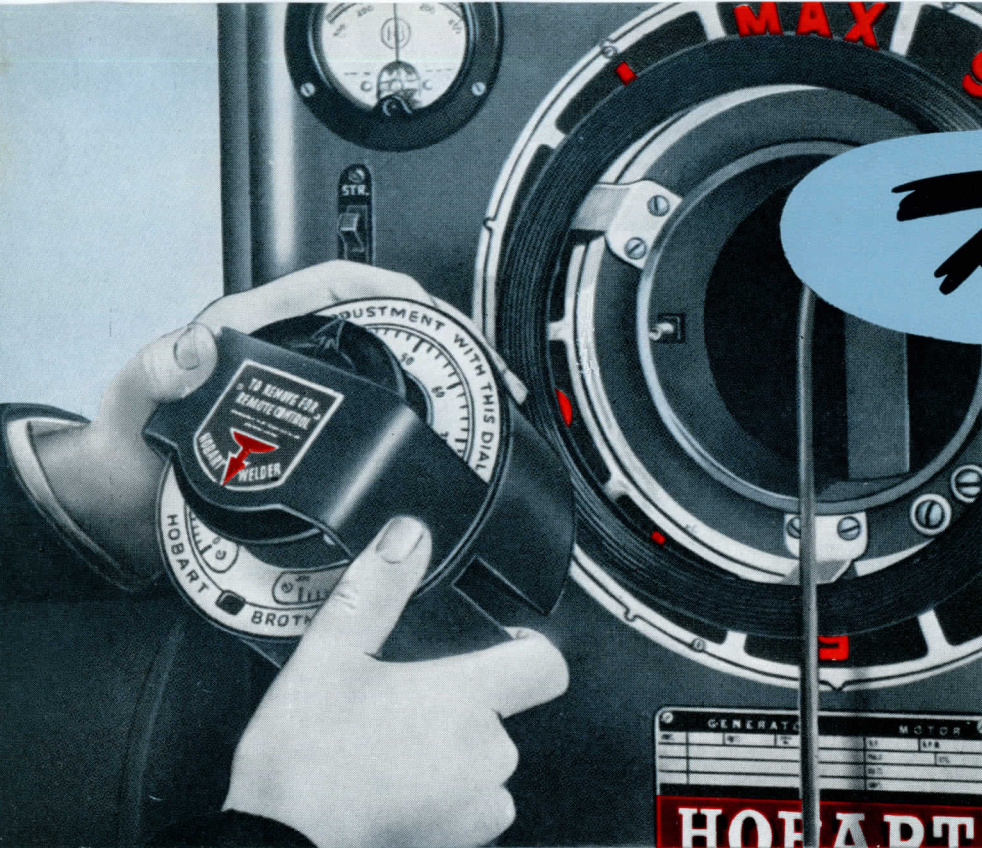
The colored area in the chart above would be "blanketed" in solid black if all possible volt-ampere curves were drawn in. That's the secret of Hobart's close control, with open circuit voltage that's never too low for arc stability yet never too high for safety.

The ingenious design of Hobart's welding generator is such that full capacity is generated only in the "Max" position. When shifted to lower posi-

tions, progressively less current is generated. The effect is that of having 10 welding machines of different capacities built in a single frame as a compact, efficient and workable unit.

All wasteful resistance is eliminated from the welding circuit except in the very lowest range where it is desirable for very light work. No brush shifting is involved, thus avoiding incidental commutation troubles. Stabilization is improved by the inherent reactance provided by the special internal windings.

On light sheet metal or heavy plates; on clean, new stock or rusty, scaly stock; on plain carbon steel or special alloys; on maintenance work or volume production; you and your operators will marvel at the speedy, high class welding that can be turned out when you have a Hobart "behind the arc."



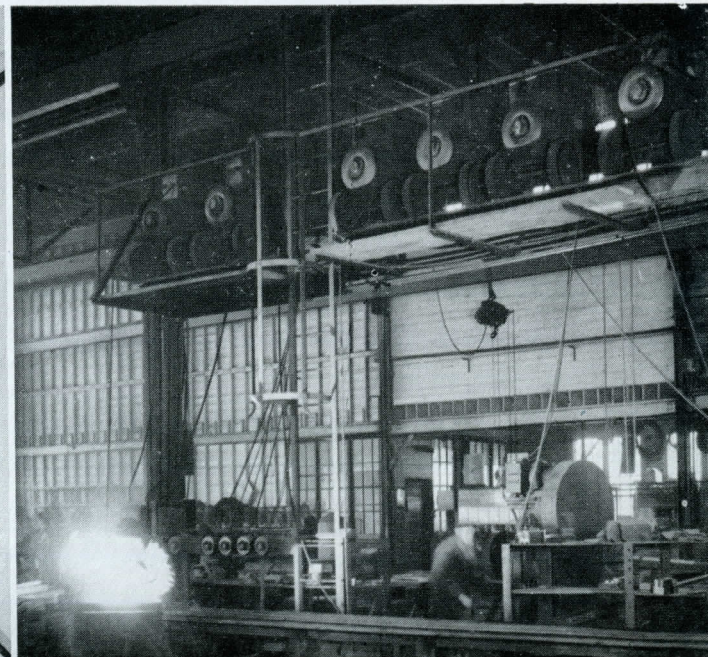
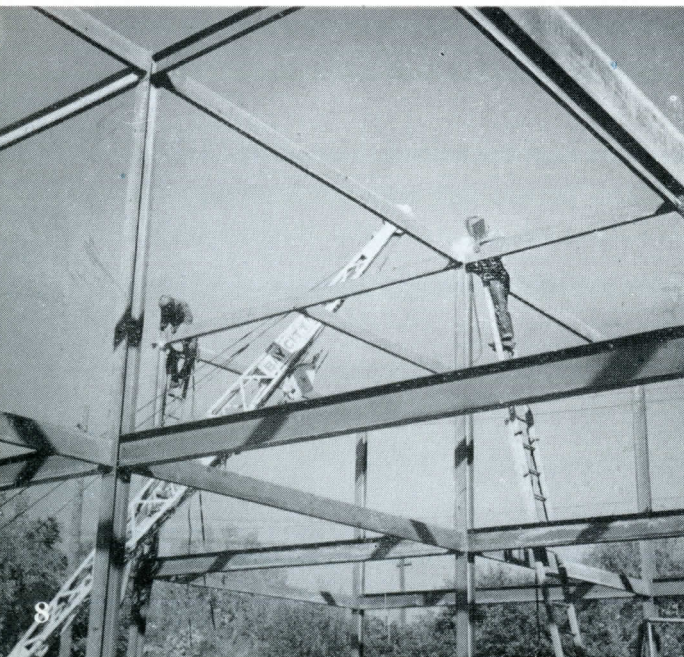
(above) Removable volt-amp adjuster is easily disconnected for use any distance from machine.

Remote Control is

Actual improvement of weld quality is a remote control advantage that is frequently overlooked because of a tendency to emphasize the convenience features, about which there can be no question. Improved quality in the weld, however, is often a direct result of those very convenient features.

For example, it is well known among operators that for best results, welding heat should be adjusted somewhat with modern coated electrodes when changing from flat position to vertical or overhead positions, and vice versa. Operators are only human, however, and with ordinary welding machines there is a temptation to "get by" without changing machine adjustment be-

Use of Remote Control saves floor space in factories — saves time and steps for operators.



standard equipment on every Hobart

cause such changes involve repeated trips between work and machine.

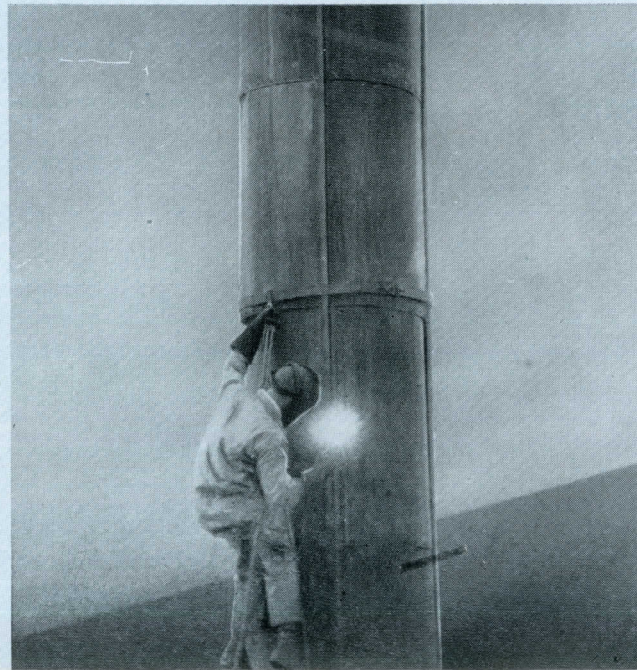
With Hobart's remote control (standard equipment with all models) this condition does not exist, because it places the 100 steps of fine adjustment right at the operator's hand. All that is necessary is to remove the volt-amp adjuster and connect it to the machine by means of an ordinary lamp cord extension.

On some jobs involving frequent changes, operators have learned to weld continuously with one hand, making heat changes with the other, without even breaking the arc. On other jobs it is often possible to change electrode

sizes and adjust the heat to correspond, without going near the welding machine. This is specially convenient when the machine is in a location difficult of approach from the work.

Even in factories, where machines may be located comparatively near the work, the use of Hobart's remote control feature has been found effective in speeding production and cutting costs. In some cases, welding machines are located near the ceiling to conserve floor space, while the operators below use the remote control. Illustrated are some of the conditions under which Hobart's exclusive remote control is obviously of great value.

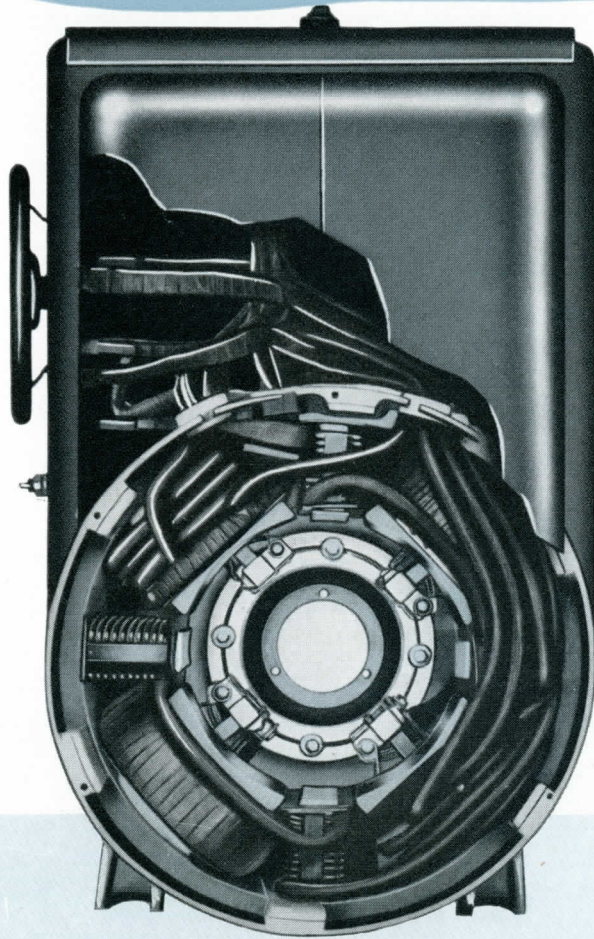
Remote Control saves climbing back and forth when working above or below the level of the machine.



With Remote Control at an operator's finger tips, high quality welds are assured.

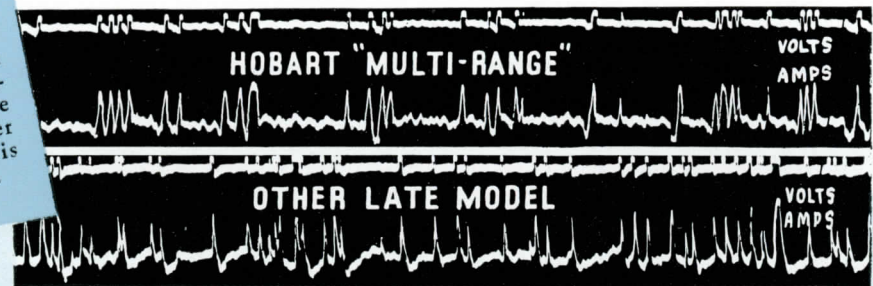
Exceptional *Stabilization*

at all settings



Bare Electrodes

Note the fewer peaks and longer periods of sustained smoothness when using bare rods with the Hobart as compared with another late model welder used under identical conditions. This means better, faster work.



Shielded Arc

Even when the two machines are used with coated electrodes under identical conditions, the Hobart "Multi-Range" Welder shows a very definite superiority in arc stability and other welding characteristics.



Oscillograms

at right show the exceptional stabilization inherent with Hobart as compared with that of another make late model machine.

Polarity Control

It's no trouble at all to change Hobart's polarity to suit any type electrode so you can change from one to another, and use correct polarity, without the slightest inconvenience.

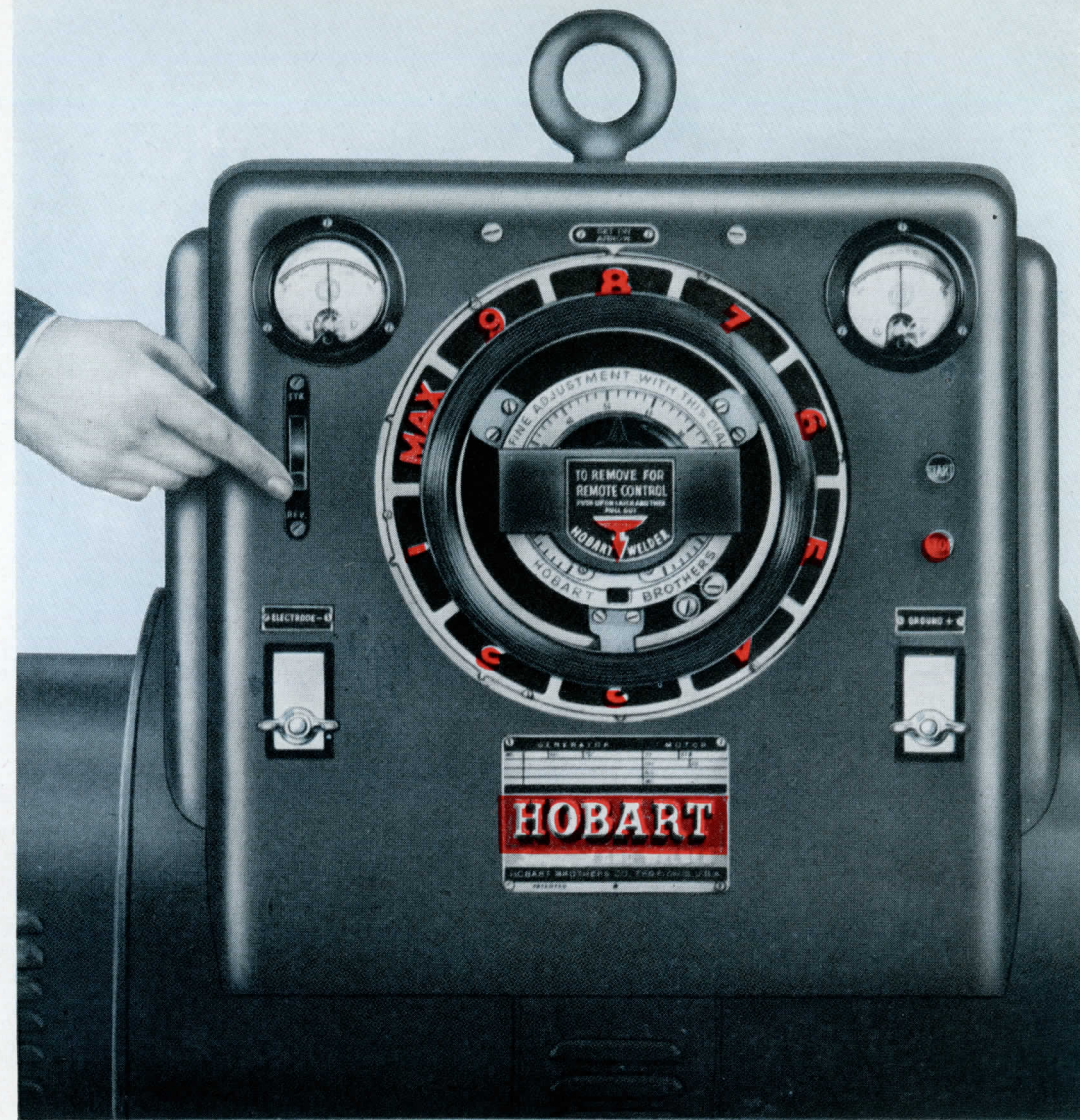
The switch is small and simple because it carries only the comparatively small and constant exciter current. Hence, it is not so likely to burn out or cause trouble as the bulky, complicated switch that must be used in the variable main welding circuit of self-excited machines.

You don't have to throw the Hobart switch slowly and carefully as with some machines. With the Hobart, you can flip the switch just as quickly as you please and know that the polarity change invariably takes place positively and instantly.

Accidental polarity reversals, by the way, are guarded against by Hobart's exclusive, 4-pole, inbuilt exciter with liberal sized commutator. There's not even interference between two operators using separate machines on the same job with a common ground.

* *Two Way Meters*

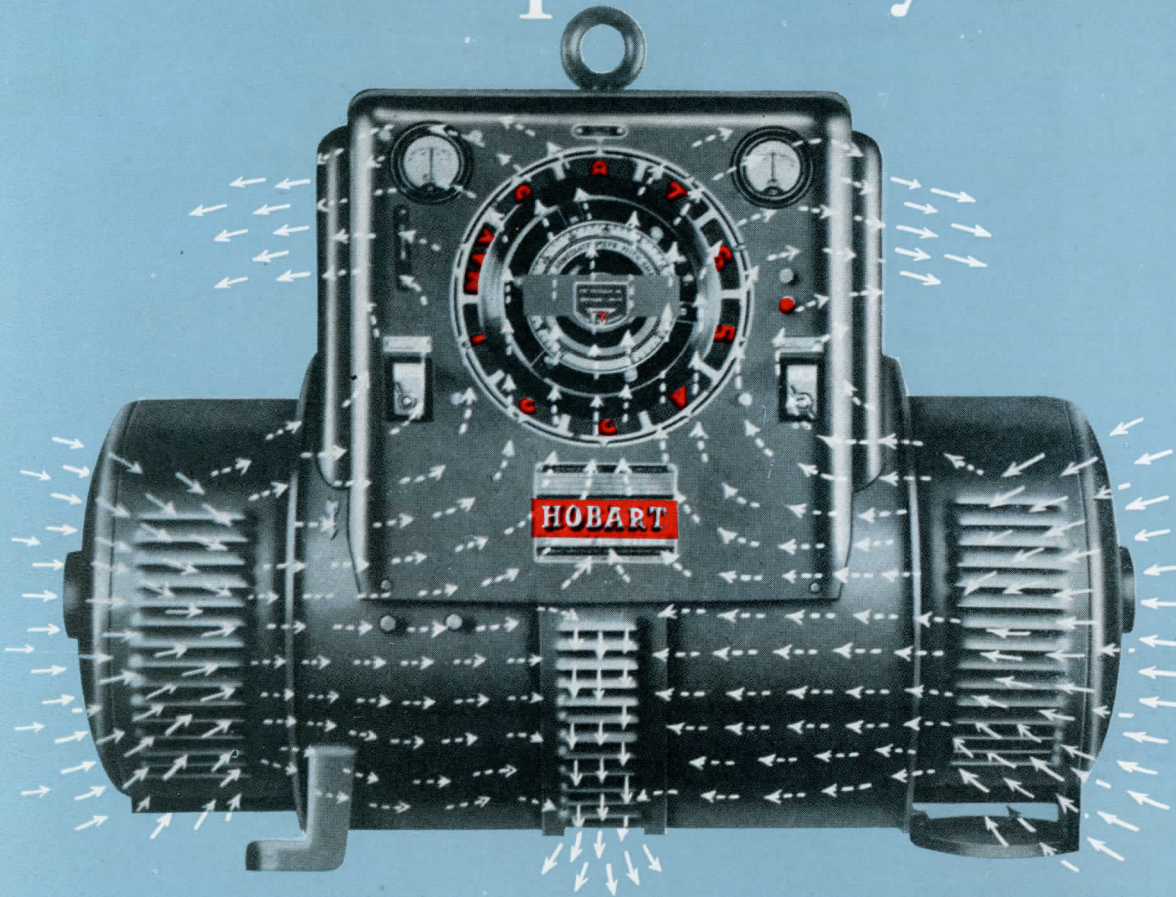
* OPTIONAL AT SLIGHT ADDITIONAL COST



There's no guesswork about polarity with a Hobart. The separate ammeter and voltmeter indicate polarity, whether running idle or under load. With separate meters, too, it is unnecessary to go to the machine and operate a switch to check either the voltage or the current that is being used.

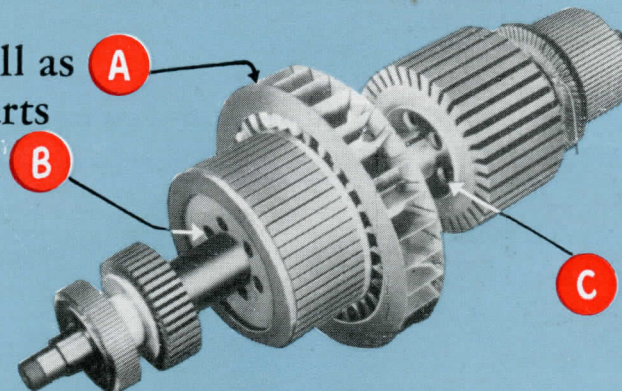
Exceptionally *Cool* Operation

with Hobart improved 2-way ventilation



Air passes through as well as
around the armature parts

- A. Specially designed, inbuilt fan.
- B. Internal air paths in the motor rotor.
- C. Internal air paths in both core and commutator of the generator.



Cool copper has better electrical characteristics than hot copper, so temperature has an important effect upon the efficiency of a welding machine as well as upon its useful life. Hobart engineers believe in using plenty of copper at normal operating speed, with effective ventilation, rather than skimping to the point where special insulation would be required to conceal inefficient high temperatures.

It's easy to see that Hobart's method of two-way ventilation changes the air twice as often as if it were carried from one end clear to the other. A heavy duty, suction type fan of special design draws in the fresh, cool air through the end louvers, bathes all parts with the cooling draft, then expels the heat-laden air through the central louvers.

Ample copper, open internal design (air passages through the inside of both motor and generator cores), and controlled draft result in remarkably cool operation of all Hobart Arc Welders.

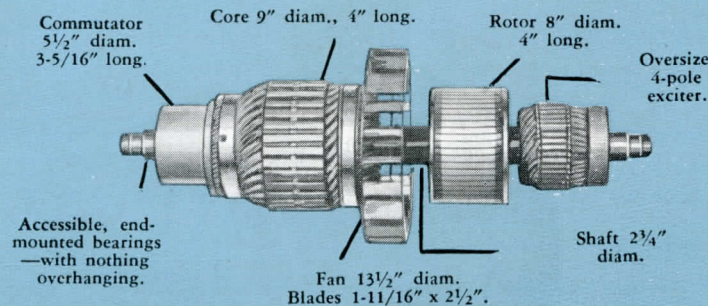
There's no other arc welder like the MULTI-RANGE HOBART

When you consider the actual materials involved in providing all the advantages and conveniences of the Hobart Welder, you will appreciate the careful and ingenious engineering that has combined them in such a compact unit, yet with everything unusually accessible. Covers are easily removed for access to starter, commutators, brushes, and bearings, while the frame itself is in two welded steel units bolted in the center.



DIMENSIONS APPLY TO ARMATURE OF 200 AMP. MODEL

If ever a piece of mechanical equipment could rightly be called *"Streamlined"* it's the Hobart Arc Welder. Here is a veritable "cyclone" of performance . . . as easily handled and controlled as a "zephyr."



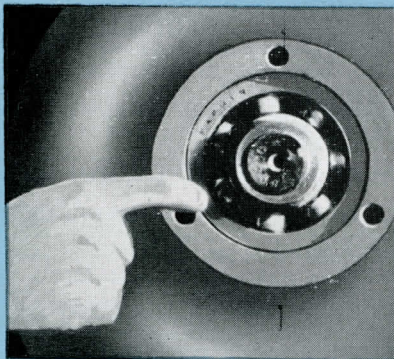
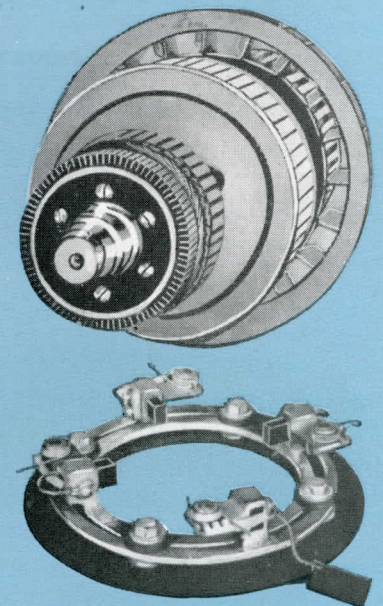
Convenient links and starting switch make it easy to change from 220 to 440 volts. Exclusive in Hobart.

Oversize

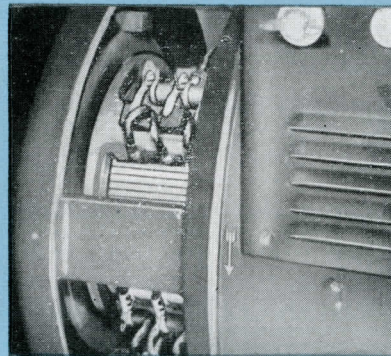
4-Pole Exciter

Note the large exciter commutator built in on the main shaft. Four brush design guards against accidental polarity reversals and assures dependable excitation of the fields.

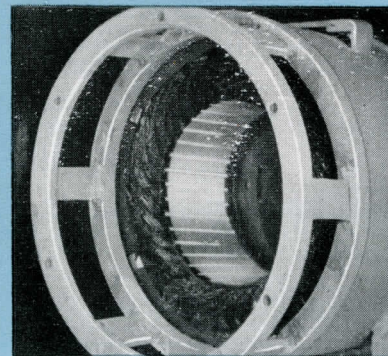
The exciter brush holder is of the same heavy duty design as that of the main generator. Nothing is skimpy in a Hobart.



Bearings are easily accessible for inspection and lubrication at any time.



Large capacity brushes held in fixed neutral position by patented brush rigging.



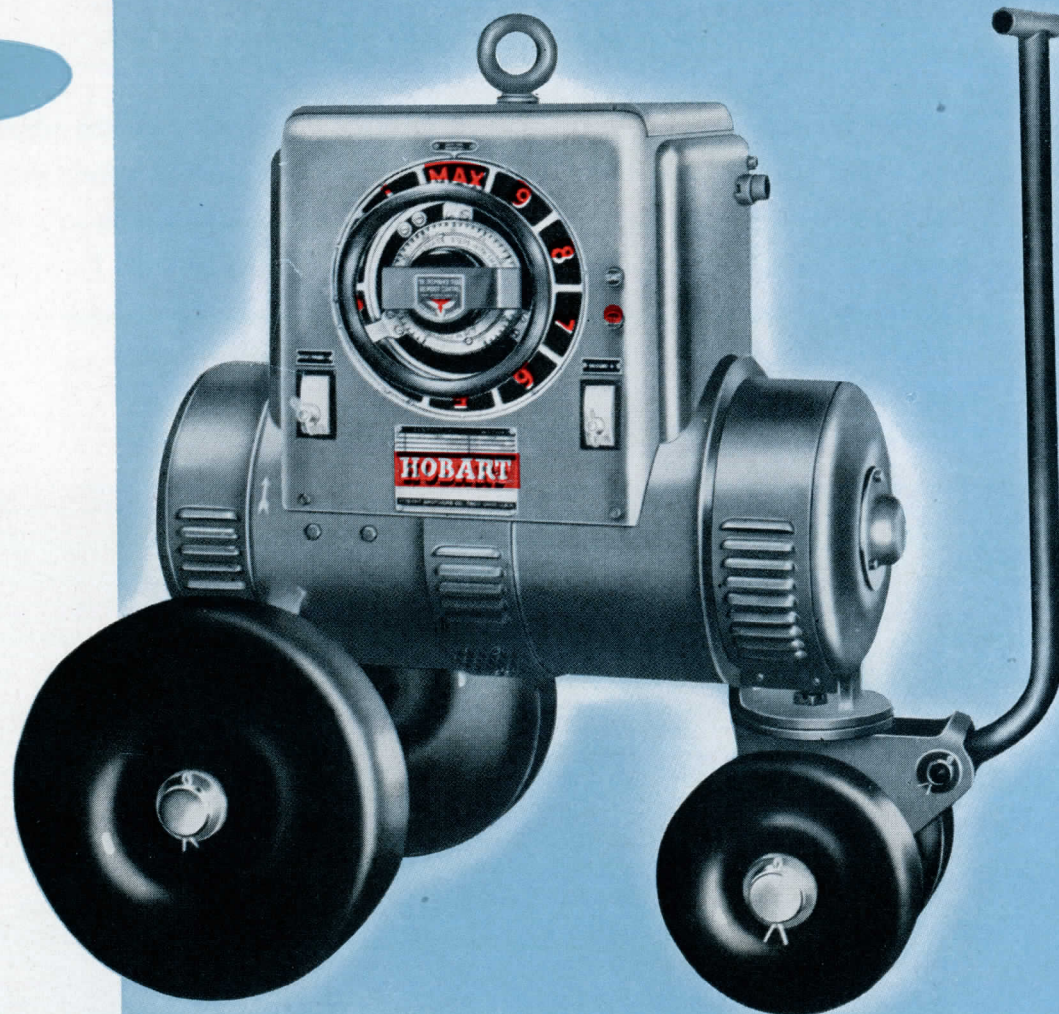
Stators are ground concentric with bearings to insure absolutely uniform air gap.

The HOBART *Model MR-150*

for Light Duty

The MR-150 Electric Drive Model is specially adapted to fabricating sheet metal, light angles, channels, etc. It is also popular with garages for repairing cracked motor blocks and for other automotive shop repair work and embodies the same approved principles of design as the larger Hobart Models . . . horizontal armature with all rotating parts between bearings; safe, long-life speed of 1750 r.p.m.; 4-pole, inbuilt, oversize exciter; superior stabilization; all welded steel construction, etc. (Voltmeter and ammeter optional.)

Operators experienced in light gauge welding have no difficulty when welding on 20 or 22 gauge, while experts have successfully welded metal as light as 24 and 26 gauge in certain special applications.



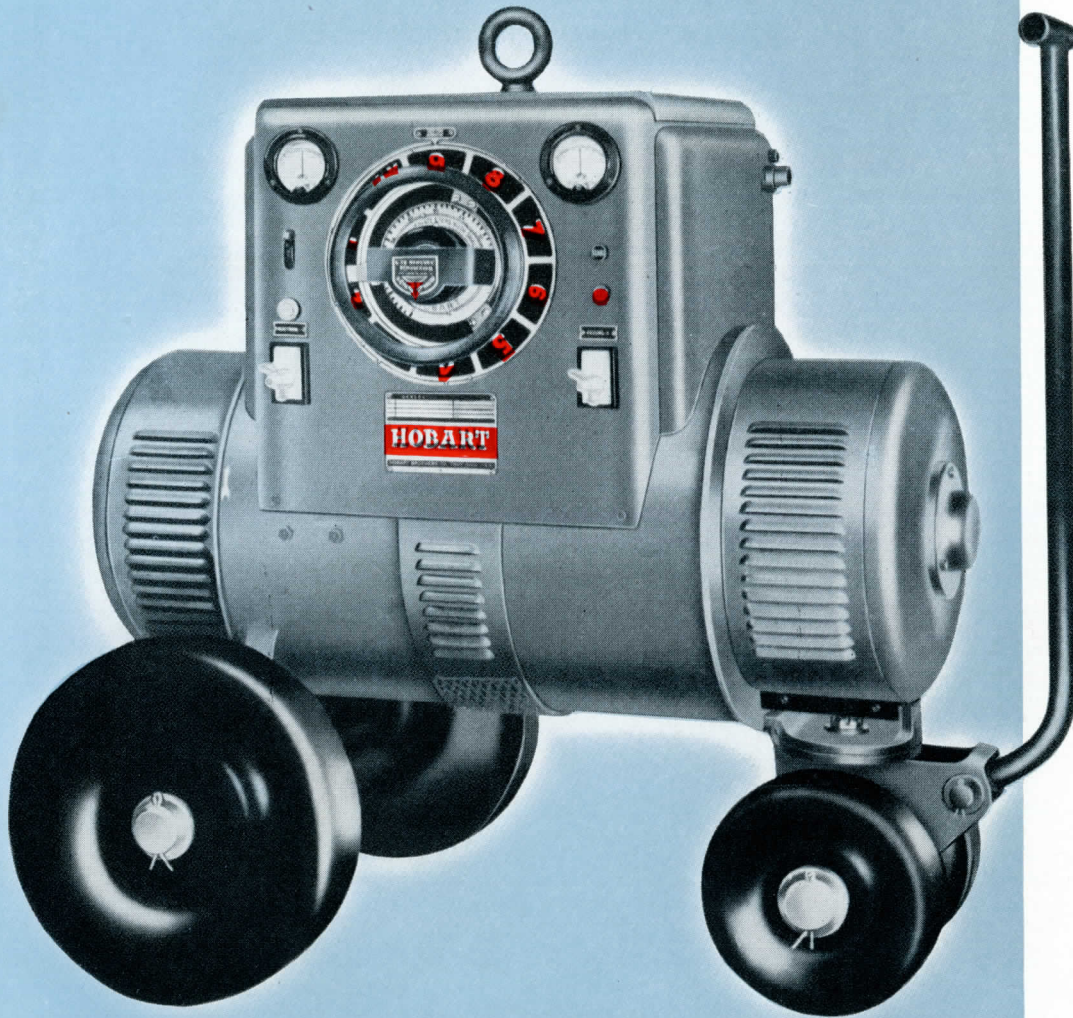
Models MR-150

Model Number	Type of Mounting	Motor Rating	Generator at 1750 rpm. (Normal Welding Voltage)		Overall Dimensions			Approx. Shipping Weight
			Rating	Welding Range	L	W	H	
MR150S	Stationary	7.5 H.P.	150 amps.	15 to 200 amps.	32"	16 1/8"	30"	650 lbs.
MR 150P	Portable	7.5 H.P.	150 amps.	15 to 200 amps.	35"	24"	41"	750 lbs.

The HOBART

Model MR-200

for Medium Duty



An all purpose machine for medium duty welding. Excellent for all fabrication purposes, sturdy and rugged enough to stand the gaff of continuous operation on medium or average production work. Its liberal design lets you do heavier welding work.

Has all the features which have made Hobart Welders so popular. Its 10 overlapping ranges of welding current and 100 steps of fine adjustment in each range give you a choice of 1,000 combinations. There is not a single "dead spot" in the entire welding range of this modern Hobart Welder. The modern Remote Control feature allows you to make adjustments at the work.

Models MR-200

Model No.	Type of Mounting	Motor Rating	Generator at 1750 RPM Normal Welding Voltage		Overall Dimensions			App. Shipping Weight
			Rating	Welding Range	L	W	H	
MR200S	Stationary	15 HP	200 amps.	40 to 300 amps.	37"	19 1/2"	31 1/4"	850 lbs.
MR200P	Portable	15 HP	200 amps.	40 to 300 amps.	39"	24"	42"	950 lbs.

VOLTMETER AND AMMETER OPTIONAL

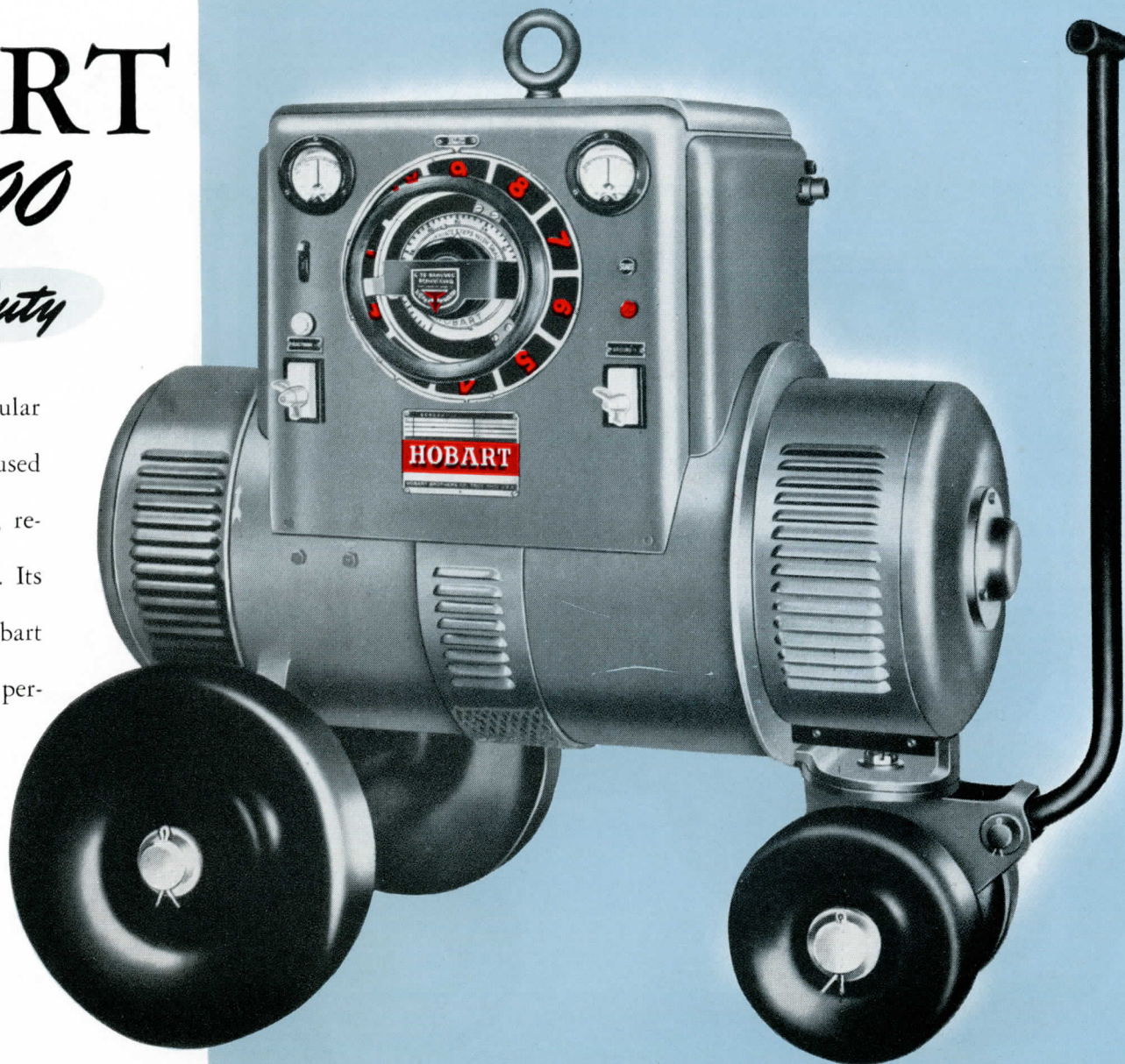
The HOBART

Model MR-300

for Average Duty

This Hobart 300 ampere welder is the most popular model for average welding requirements and is being used in thousands of plants for production, maintenance, repair, tool room work and all general shop welding. Its design and construction is identical to that of all Hobart Electric Drive Welders and brings to you superior performance and economy that is difficult to find in any other welder.

If you are not sure as to just what size welder is best for your work, describe it to us and we'll gladly give you advice based on our long experience with thousands of users in a wide variety of application.



Models MR-300

Model Number	Type of Mounting	Motor Rating	Generator at 1750 RPM Normal Welding Voltage		Overall Dimensions			App. Shipping Weight
			Rating	Welding Range	L	W	H	
MR-300S	Stationary	20 HP	300 amps.	50 to 400 amps.	41 $\frac{1}{4}$ "	20 $\frac{3}{4}$ "	33"	1125 lbs.
MR-300P	Portable	20 HP	300 amps.	50 to 400 amps.	44"	27"	44"	1225 lbs.

VOLTMETER AND AMMETER OPTIONAL

The HOBART

Models MR-405-600

for Heavy Duty

For very heavy duty welding, the Hobart 400 and 600 ampere "Senior" models are specially outstanding for large capacity and wide range. In fact, many users find the Hobart 400 ampere machine ample for work they used to consider called for a 600 ampere machine. It is extremely liberal in design and conservatively rated.

The 400 ampere size is used extensively in heavy structural work, fabricating heavy machine parts, heavy pipe and tank welding and, in some cases, for cutting gates and risers in alloy steel foundries. The 600 ampere size is sometimes preferred for heavy duty scrap cutting with carbon or shielded metallic arc and for salvaging heavy castings.

Both sizes embody all the outstanding Hobart advantages heretofore described and are of exceptionally heavy duty construction and complete equipment.

Either the 400 or 600 ampere Hobart is ideal for automatic welding operations, because it furnishes power for the motor operating the automatic head, for the motor operating the handling fixtures, and for the welding arc. Two 400 amp. machines can be connected in parallel for 800 amp. or two 600 amp. machines for 1200 amp. Details on request.



Models

MR 405

MR 600

Model Number	Type of Mounting	Motor Rating	Generator Rating at 40 Volts	Welding Range	Overall Dimensions			Approx. Shipping Weight
					L	W	H	
MR-405-S	Stationary	25 H.P.	16 KW.-400 amps.	60 to 600 amps.	43"	24"	36 1/2"	1450 lbs.
MR-405 P	Portable	25 H.P.	16 KW.-400 amps.	60 to 600 amps.	47 1/2"	27"	37 1/2"	1500 lbs.
MR-600-S	Stationary	40 H.P.	24 KW.-600 amps.	70 to 800 amps.	51"	23 5/8"	36 1/8"	1800 lbs.
MR-600-P	Portable	40 H.P.	24 KW.-600 amps.	70 to 800 amps.	54 1/4"	33"	47"	1900 lbs.

See for Yourself—

...why HOBART is the fastest selling arc welder on the market today.

Just one glance at the cut-away section will convince you that this compact, modern designed welder is built to give real service. Its all welded steel construction makes possible less bulk, lighter weight—without sacrificing all important copper and electrical steel. Every Hobart welder is so liberally designed and so conservatively rated that purchasers find they have received more than claimed when the welder is put into actual service.

Convenient and simple switch for changing polarity to suit different types of electrodes you use.

All arc welded steel frame — light, compact, durable.

Heavy duty, single unit, steel shaft carries motor, generator, fan and exciter between bearings. Dynamically balanced after assembly. Free from vibration.

Pressed steel bearing cap, easily removable for bearing inspection, quick lubrication.

Heavy duty ball bearings are mounted at end of shaft—nothing overhanging.

Large commutator with retainer of arc welded steel.

Heavy duty metallic-graphite brushes operate in the fixed neutral position, insuring sparkless commutation.

Steel turret top with removable cover protects instruments, controls, wiring, etc.

Large ammeter, clearly marked, reads in both directions to indicate polarity. Mounted flush with panel.

Drip proof steel covers with the efficient louvre type ventilators.

Welding cable connector.

Sturdy steel lifting eye for easy handling with crane or hoist.

Large voltmeter reads in polarity.

Four-pole "Multi-Range" Generator has removable pole pieces. Four laminated main poles and four interpoles (commutating poles).

Steel frame is built in two sections, bolted together for easy disassembly (pat. design).

Heavy steel fan of special design draws in fresh air at both ends and expels it at center, changing air twice as often as in ordinary machines.

...lmmeter, clearly marked,
both directions to indicate
Mounted flush with panel.

Inner wheel and dial for adjustment of
heat and of relation between voltage and
current. Removable for remote control.

Outer wheel and dial for selecting the desired weld-
ing range. It provides 10 steps which, with the 100
steps in the inner wheel, make possible a wide
range of 1,000 volt-ampere combinations.

Drip proof steel covers
with the louvre type effi-
cient ventilators.

Starting switch located
inside turret top. Start,
stop and reset buttons
conveniently located
on outside of cabinet.
Switch fully protected
against overload, un-
dervoltage and condi-
tions of phase unbal-
ance in power supply.

Ground cable
connector.

Pressed steel bearing
cap, easily removable
for bearing inspec-
tion or lubrication.

Heavy duty ball bear-
ings are mounted at
ends of shaft with
nothing overhanging.

Arc welded
copper squirrel
cage rotor. It
has no bolts or
rivets.

Oversize, 4-pole exciter built
in on main shaft. Insures quick
arc recovery and build up.

Eliminates accidental polarity reversal, even when
two or more machines are used on same job with
common ground.

Motor stator is ground
concentric with bear-
ings, after assembly
in frame, assuring a
uniform air gap be-
tween the stator and
the rotor.

Hobart Balanced Design

Hobart Welders are the best that engineering skill can design.

A policy of building for quality, with liberal modern design
and conservative rating has made the Hobart speak for itself
in answer to bigger welding production demands of today.

Step by step comparison will prove Hobart Arc Welding
supremacy. When you buy a Hobart, you own one of the
most modern pieces of equipment of its kind. Equipment
that saves you money—gives you a stronger product—lets
you make more profit.

The New HOBART 200 Ampere



Gas Engine Drive Welder

Models

GR-215S (Battery Start)

GR-210S (Magneto-Hand Crank)

(200 Amperes at 40 Volts)

For speedy, low cost welding in the field use this new, powerful, rugged 200 ampere Hobart Arc Welder. Gives you faster, more perfect welding work on every job, large or small, than you ever thought possible. Operating costs are lower when you use this exceptional Hobart Welder, because of the rugged power plant and the famous Hobart advantages of Remote Control, and one thousand combinations of current.

This is a husky, full capacity 200 ampere welder. There is nothing on the market to match it for completeness of equipment, wide welding range, economy of operation, compact yet rugged design, and thorough engineering. Study the picture and consider the specifications—then compare with any other welder of like rating. There can be no second choice Hobart gives you more. Two or four wheel road trailers are available, see page 23.

VOLTMETER AND AMMETER OPTIONAL

Models

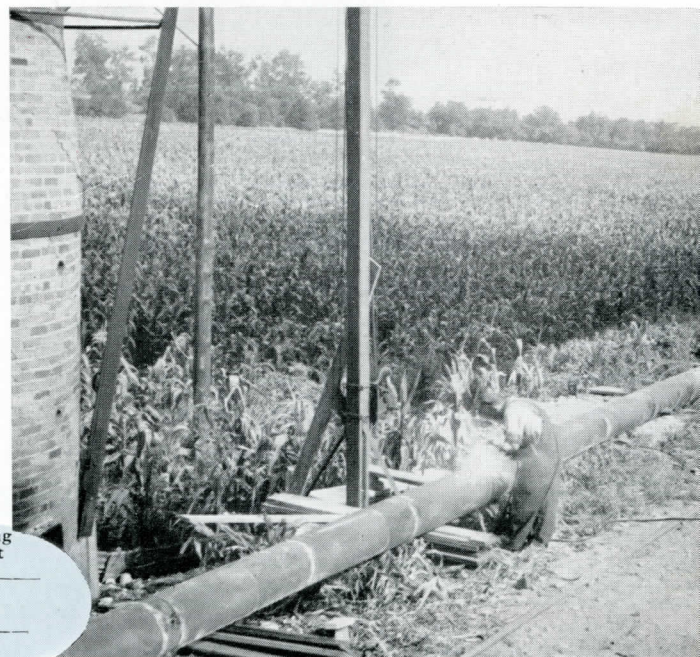
GR-215S

GR-210S

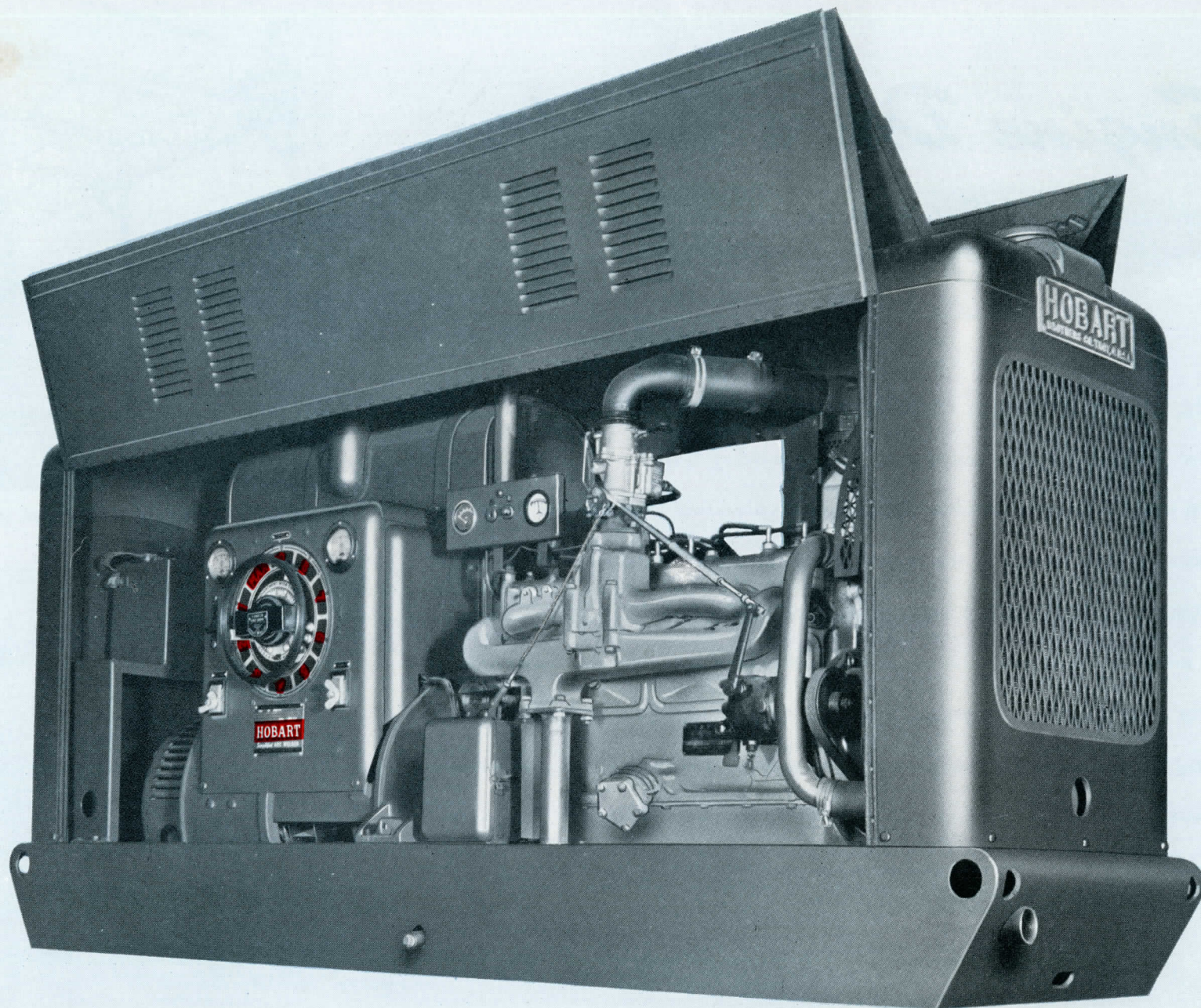
Current Range Amps.	Number Brushes	Engine	No. Cylinders	Piston Displaces Cu. In.	Brake HP 1500 RPM	Radiator Capacity	Overall Dimen.			Shipping Weight Lbs.
							L	W	H	
40 to 275	8	Willys Jeep MB	4	134.2	26	4 gal.	69	24	45½	1525
40 to 275	8	Willys Jeep MB	4	134.2	26	4 gal.	69	24	45½	1525



Steel construction simplified and speeded up with Hobart Gas Drive Welder.



Pipe line construction more economical with Hobart Gas Drive Welder.

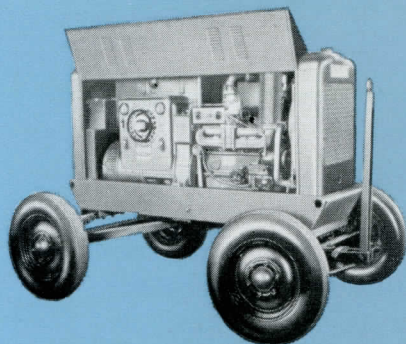


Hobart Gasoline Engine Drive Arc Welders

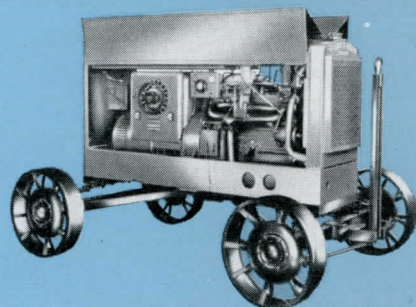
By far the most complete gas engine driven welder units available today — their equipment includes — Push Button Electric Self-Starting — Battery Type Starting-Lighting-Ignition System — Fly Ball Governor — Idling Device — $\frac{1}{2}$ Kw Auxiliary Power Outlet Plug — Engine Control Panel with Ignition Lock — Steel Fuel Tank of Ample

Capacity — Ample Capacity Radiator with Steel Shell — Oil, Air, and Fuel Filters — Fuel Pump — Multi-Range Dual Control Welding Generator, with all of Hobart's modern advantages previously described — Mounted on Rigid Steel Skids with Lifting Eye — Steel Canopy with Hinged Steel Side Panels.

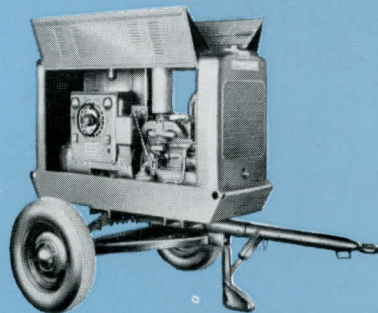
HOBART *Gas Drive Welders*



Four-wheel pneumatic tired road trailer for use with Gasoline Engine Driven Models.



Trailer with 24" yard type steel wheels for use with Gasoline Engine Driven Models.



Two-wheel pneumatic tired road trailer for Hobart Gasoline Engine Driven Models of 300 ampere capacity or smaller.

Hobart Gasoline Engine Driven Arc Welders have won favorable recognition by large users in all kinds of welding operations. They form the nucleus of hundreds of the U. S. Army Mobile Machine Shops about which much has been written in technical publications. Outstanding features are compactness, completeness of equipment, convenience of controls, smoothness of operation, and muffled freedom from excessive noise.

A Hobart Gasoline Engine Driven Arc Welder, on a spring mounted, pneumatic tired Road Trailer, gets quickly and safely to any job. Spring mounting and balloon tires protect the outfit from bumps and vibration when towing at road speed behind your car or truck. Equipped with sturdy two bar and special stabilizer, it trails easily without excessive bounce, side sway or "shimmie." Available with two or four wheels as illustrated.

Where less rapid moving around the shop or yard is required, steel wheels may be used.

TWO LARGER SIZES - *rated at 40 volts*

WITHOUT PORTABLE MOUNTINGS

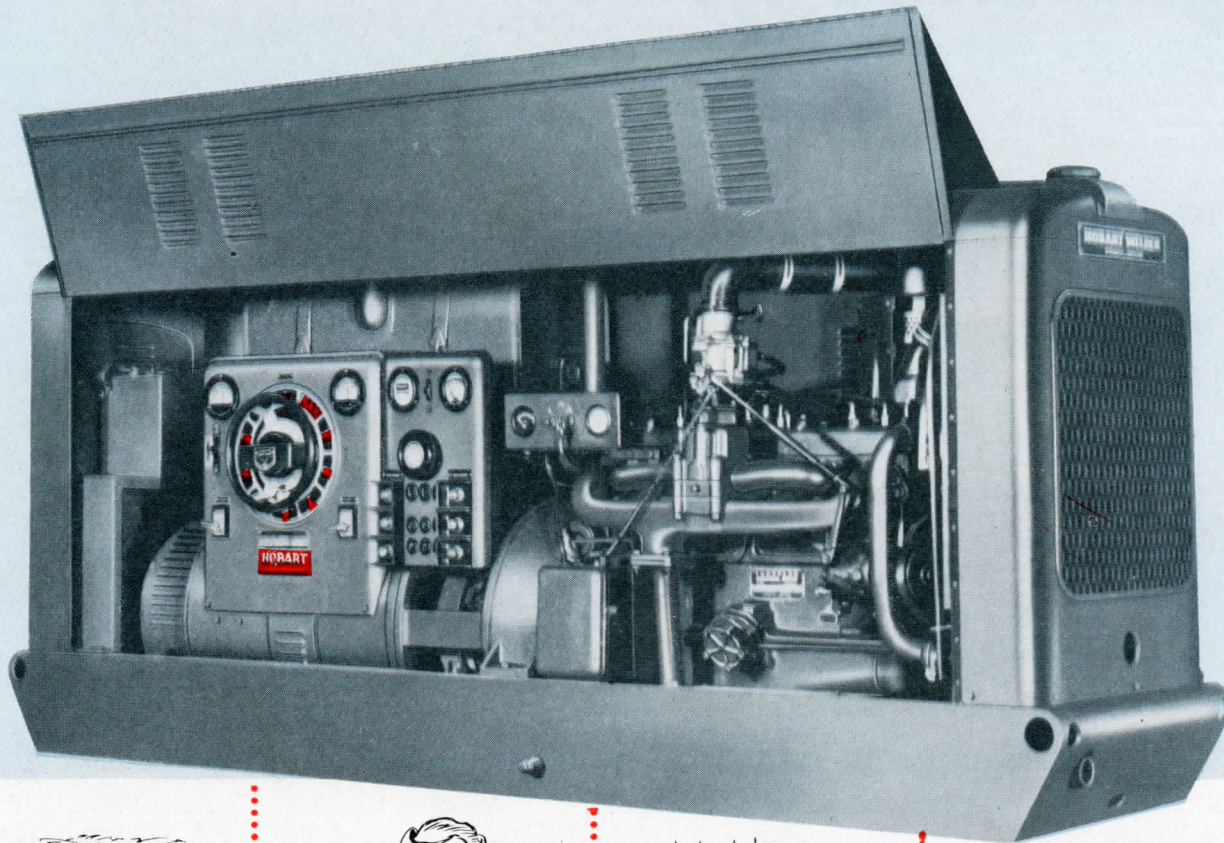
GR-315S (300 Amperes)

GR-415S (400 Amperes)

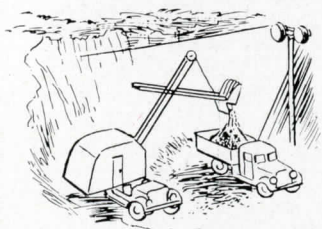
	Current Range Lamps	Generator Brushes	Engine	Number Cylinders	Piston Displaces	Brake HP 1500 RPM	Radiator Capacity	Overall Dimensions			Weight
								L	W	H	
GR-315S	50 to 400	12	Chrysler IND 7-2	6	236.6	52	4 gal.	84	24	45 $\frac{3}{4}$	2120 lbs.
GR-415S	60 to 600	16	Chrysler IND 12-179	8	323.5	72	5 gal.	92	30	50 $\frac{7}{8}$	2450 lbs.

VOLTMETER AND AMMETER OPTIONAL

HOBART *DC-AC Welder-Generator Combination*



Here's plenty of power for contractors, construction workers, welding contractors, and anyone else interested in work that involves welding in places where electric power is not available. This Hobart Welder-Generator Combination provides Direct Current for welding PLUS 3 phase and/or single phase Alternating Current for power and lights. In addition to a full capacity 300 ampere Arc Welder, you get a dependable Power Generator supplying electric power for many other useful operations. For example, you can use it to operate hoists, elevators, pumps, lights, drills, grinders, saws, hammers, paint sprayers - an ideal unit for supplying power to a complete portable machine shop.



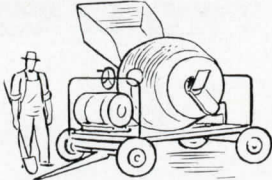
Power for Floodlights



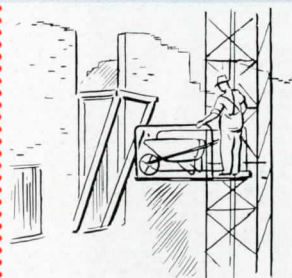
All kinds of arc welding



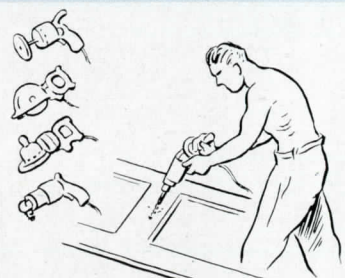
Power for temporary Lighting



220 power for larger equipment



Operate hoists or elevators



Power for all small tools

Models GR3156-S
GR3152-S

Corresponding Welder Model	Welding Rating (Amps.)	Auxiliary Power (A. C.)	Welding Range (Amps.)	Generator Brushes	Industrial Engine Model	Number of Cylinders	Overall Dimensions			Approximate Shipping Weight
							L	W	H	
GR-315-S	300	6 KW	50 to 400	12	IND 7.2	6	93½"	24"	45¾"	2430 #
GR-315-S	300	12 KW	50 to 400	12	IND 7.2	6	93½"	24"	45¾"	2550 #

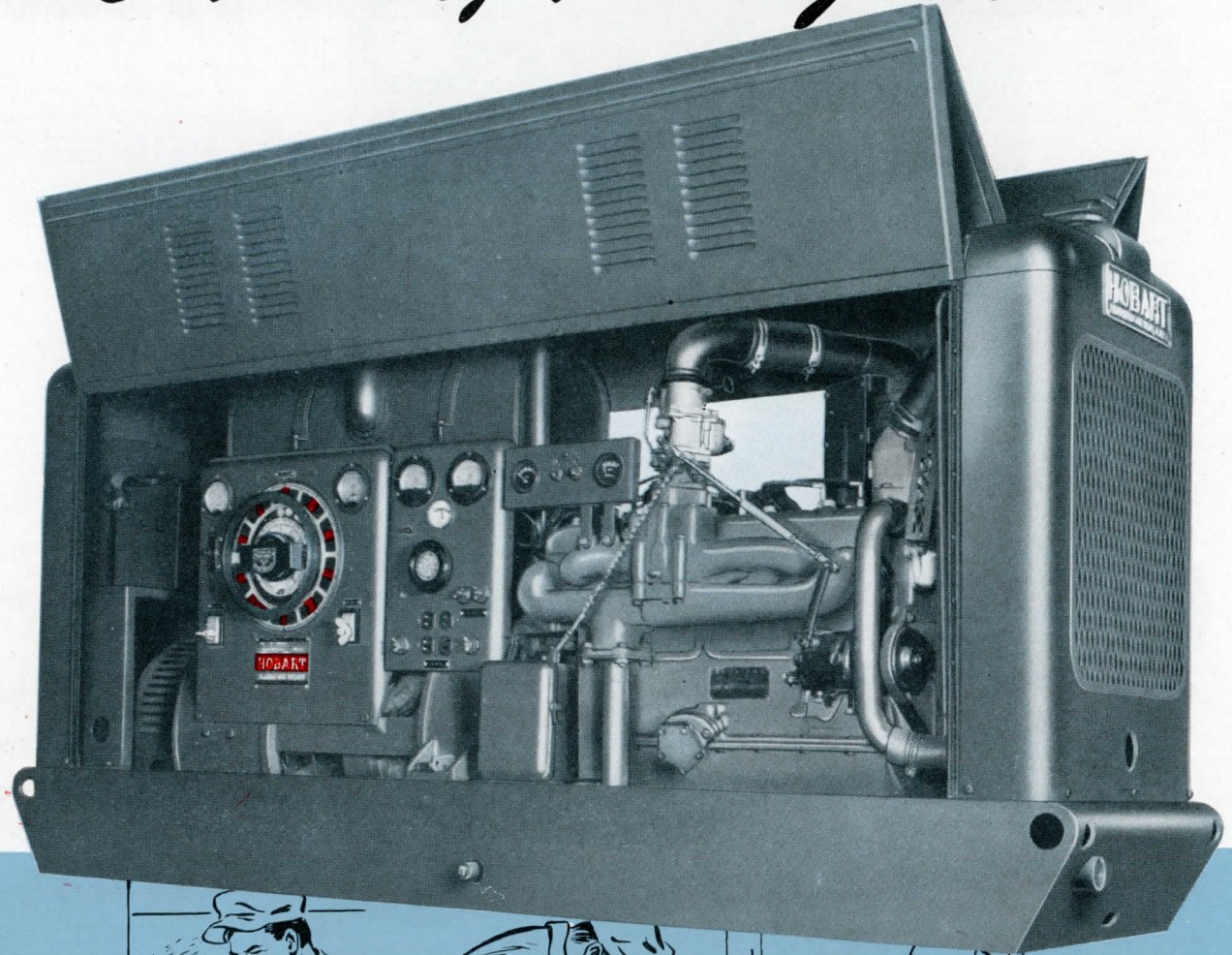
Voltmeter and Ammeter Optional

HOBART *DC Auxiliary Power Generator*

Contractors and job shops doing a lot of outside work use auxiliary power generators with their gasoline engine driven Hobart Welders to furnish lights and to operate such tools as grinders, drills, chipping hammers, socket wrenches, screwdrivers and paint sprayers.

Factories use this extra equipment with electric motor driven Hobart Welders to furnish power for operating automatic welding head motors and handling fixtures, thus making the welding outfit serve three purposes.

D. C. Auxiliary Power Generators are available for factory installation only on Hobart Arc Welders as indicated. The inbuilt exciter is enlarged to provide the additional capacity. If A. C. power is wanted, see the preceding page.



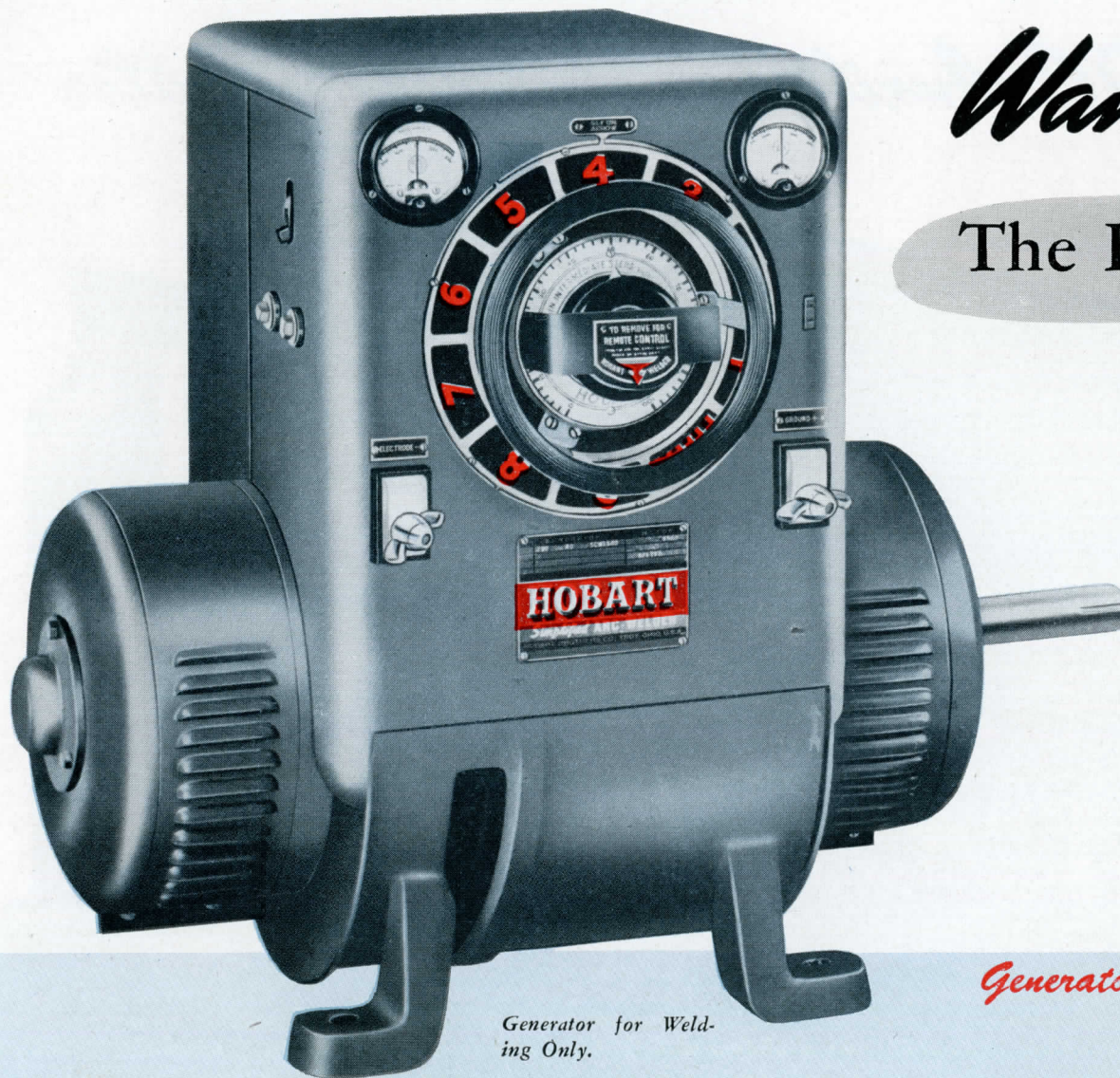
Model Number	Corresponding Welder Model	Welder Rating (Amps)	Auxiliary Power (D.C.)
GR-2101-S	GR-210-S	200	1
GR-2151-S	GR-215-S	200	1
GR-3151-S	GR-315-S	300	1
GR-4151-S	GR-415-S	400	1
GR-3153-S	GR-315-S	300	3
GR-4153-S	GR-415-S	400	3



Model GR 3153-S (Illustrated)

Current Range (Amperes)	Generator Brushes	Industrial Engine Model	Number of Cylinders	Overall Dimensions			Approximate Shipping Weight
				L	W	H	
50 to 400	12	IND 7.2	6	78"	22"	45½"	2100 lbs.

*For A. C. Auxiliary Power Generator, refer to page 24.



Generator for Welding Only.

Want to "Build Your

The HOBART WR Series (Generators Only)

With this outfit you can have all the advantages of Hobart Multi-Range Welder performance while making use of your own power unit. Complete in every way, except for motor, it can be operated either by direct coupling or by means of V-belts and grooved pulley. Flexible coupling available at slight additional cost, or you can secure suitable belt and pulley equipment from a local supply house.

Manufacturers and contractors who have to do special installation work in their customers' plants can thus use interchangeable motors to adapt their welding equipment to local electric power supply of type available.

VOLTMETER AND AMMETER OPTIONAL

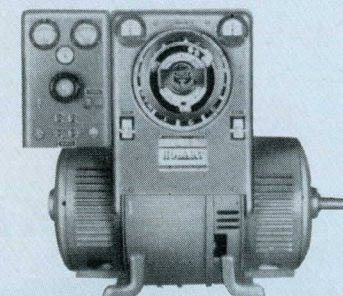
Generator Only with DC Auxiliary Power gives added advantage of 1 or 3 KW outlets, for powering small hand tools and providing electric lights.



Models

	Power Required		Generator Rating	Welding Range	Overall Dimensions			Approximate Shipping Weight
	Electric	Gasoline			L	W	H	
WR-150-S	7½	15	3.75KW.—150 Amps.	15-200 Amps.	31 3/16"	16 1/8"	25 9/16"	500 lbs.
WR-200-S	15	30	8 KW.—200 Amps.	40-300 Amps.	33 11/16"	19"	28 1/16"	650 lbs.
WR-300-S	20	50	12 KW.—300 Amps.	50-400 Amps.	35 15/16"	20 1/4"	29 7/16"	750 lbs.
WR-405-S	25	50	16 KW.—400 Amps.	60-600 Amps.	43"	24"	36 1/2"	1450 lbs.

NOTE: For convenience in building your own Portable Arc Welder, we can also supply Flexible Coupling, Engine Governor, Electric Idling Device, Steel Radiator, etc.



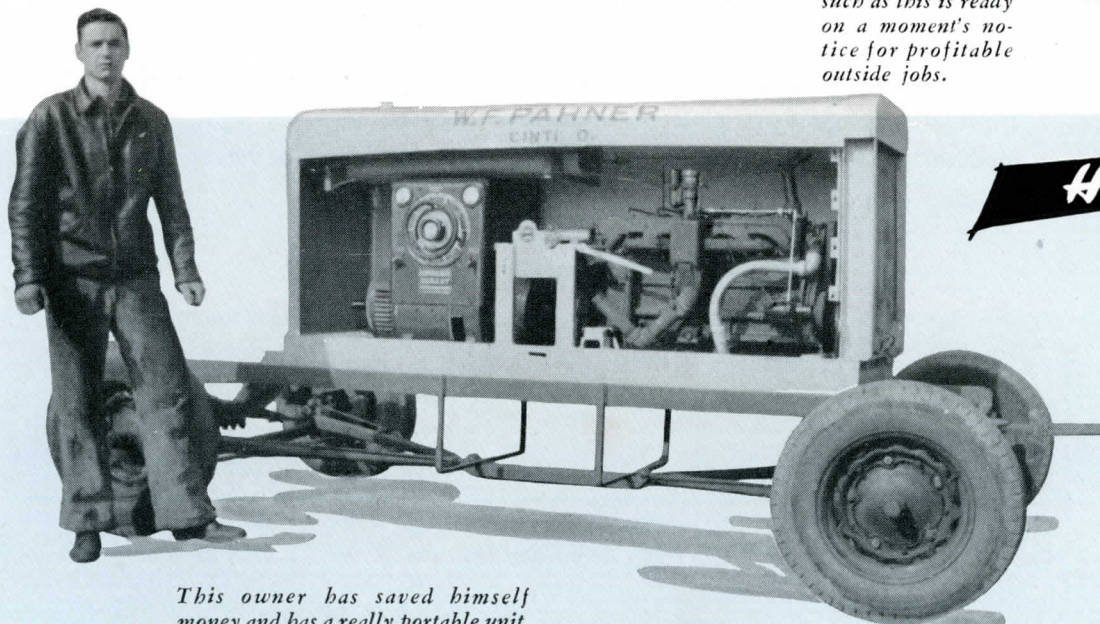
Generator for Welding and Auxiliary Power.

Own" Simplified Arc Welder?

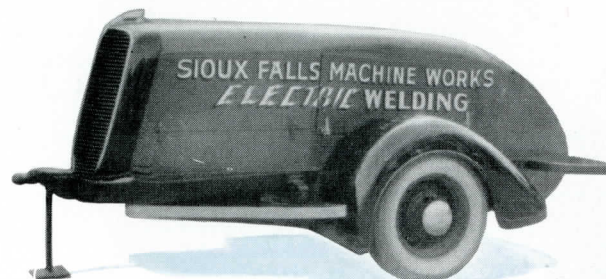
One of the widest applications of the Hobart generator only is as the nucleus of a portable outfit for job welding service.

If your work is of such a character that you cannot justify an investment in a complete, factory-built portable welding outfit, you can still have one of which you will be proud by simply connecting a Hobart generator only to a good used auto engine.

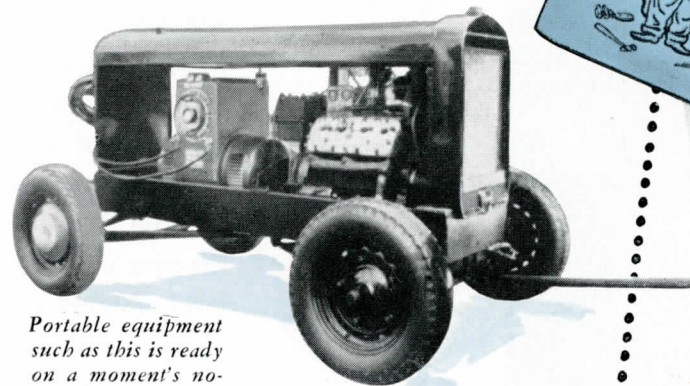
Many customers who have "built their own" show savings of \$300.00 to \$500.00 and even more as compared with the cost of complete, factory-built portable gasoline driven outfits.



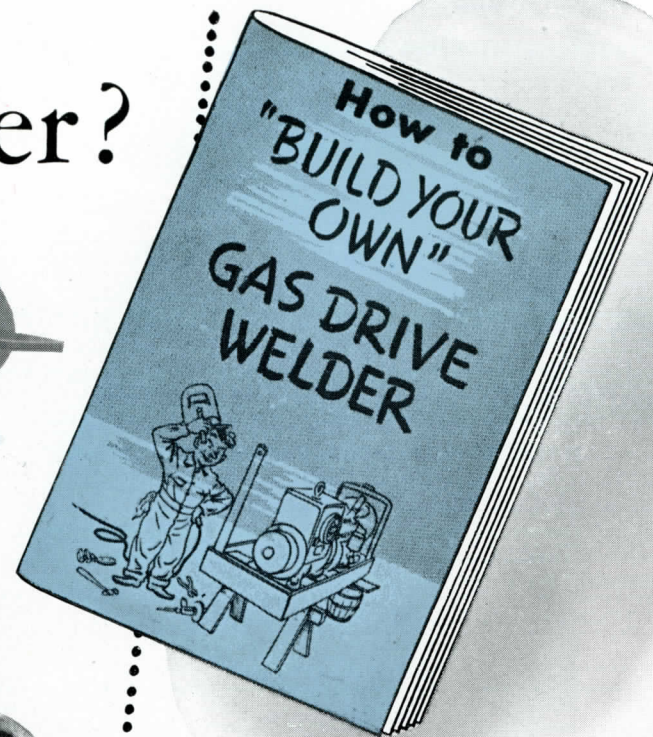
This owner has saved himself money and has a really portable unit.



A compact, well-built, modern looking unit that promises big profits to its owner.

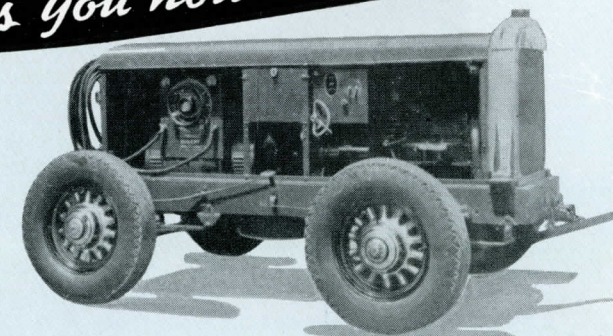


Portable equipment such as this is ready on a moment's notice for profitable outside jobs.

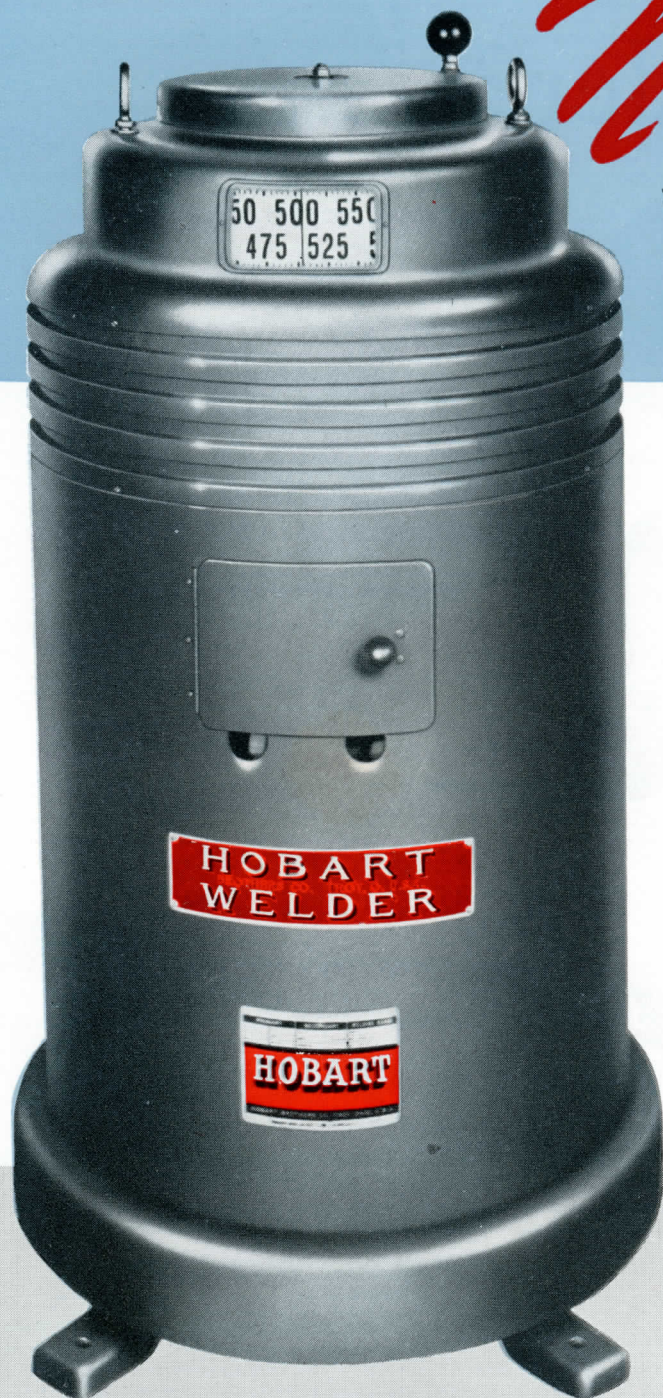


This booklet gives you detailed instructions on "How to Build your Own" portable Hobart Arc Welder. If you have the urge to "build your own" ask us for a copy. It's free!

Hobart shows you how . . .



Here's a well-built, compact unit economically assembled using a reconditioned auto engine and chassis.



New

*Industrial
Type*

HOBART A-C transformer welder

You'll like the smooth performance of the new Hobart Transformer type welders—rapidly being adopted by those who know what's best in Arc Welding Equipment. Easy to operate—start faster—get better welds in less time. They insure longer life, less maintenance and give you an assurance of unequalled performance.

These new Hobart AC Welders are equipped with the "NO STEP" constant flow Current Control to give you the exact current that's right for your job with a minimum turning of the hand wheel. Cool running and highly efficient, they have a high Power Factor at full rated load with an unusually low power consumption.

You'll be surprised how much faster your work gets out and how your weld quality improves when you use these new Hobart AC Welders. Especially designed for your requirements—the 300 amp. for light and medium production or maintenance work—the 500 amp. for heavy arc welding jobs.

Model No.	Rated Output			Welding Range (amperes)	No Load Voltage	Input at Rated Load		No Load Input		Capacitor KVA	Dimensions			Net Wt.
	Amps.	Volts	Duty Cycle			440V	220V	440V	220V		Ht.	Dia. Case	Dia. Base	
TIP-300-S	300	40	60%	60 to 375	75	36.5	73	22.5	45	10	45"	22"	24"	500#
TIP-300-P	300	40	60%	60 to 375	75	36.5	73	22.5	45	10	45"	22"	24"	615#
TIP-500-S	500	40	60%	100 to 625	75	63	125	32	64	15	49"	22"	24"	635#
TIP-500-P	500	40	60%	100 to 625	75	63	125	32	64	15	49"	22"	24"	745#

Here are **20 Reasons** why you'll want this new **HOBART A-C Welder**

1. Illuminated Indicating Dial
2. Extra Large Dial Markings
3. Uniform Dial Calibration
4. Gravity-Compensating Coil Action
5. Easy Turning Adjusting Screw
6. Easy Arc to Strike and Hold
7. Time Saving in Current Adjustment
8. Effective Primary-Secondary Isolation
9. Dual Voltage Supply Connection
10. Highly Efficient Operation
11. Low Power Consumption
12. Power Factor Correction
13. Down Draft Ventilation
14. Highest Quality Insulation
15. Reinforced Welding Cable Terminals
16. Roomy Case—No Crowding
17. Parts Easily Accessible
18. Rugged, Long Life Construction
19. Thoroughly Drip Proof Case
20. Compact, Fool Proof Construction

Portable Mounting

... is optional equipment for the new HOBART A.C. welder. Especially designed for the 300 or 500 ampere size.



Hobart Industrial A-C

Hobart Industrial A-C

A transformer type arc welder, designed to bring improved AC welding performance to shops that have only single phase, 220 volt power supply and where power change-over is not practical. It has a wide welding range and superior welding characteristics that insure the finest welds possible under widely varying conditions.



Hobart Utility A-C
Models - TIP & TRP

Hobart Utility A-C

This transformer type arc welder is specially designed to bring farmers, and other users of REA power lines, all the advantages of Hobart AC Arc Welding—the same type of equipment as used in welding shops. It has a high power factor, high efficiency, and a wide range of useful welding current. Saves many dollars repairing farm implements and for use on general farm maintenance work.

Hobart A-C "Heliarc" Arc Welder

This AC transformer welder is specially designed for use with modern "Heliarc" Equipment as supplied by the Linde Air Products Company, using helium or argon for Inert-Gas-Shielded Welding. This equipment is being widely adopted for welding magnesium alloys, aluminum, stainless steels, high carbon and other alloy steels, brass and hard-to-weld metals.



Hobart A-C "Heliarc"
Arc Welder
Model - TIH, 300 & 500

HOBART

Gas Drive AC-AC

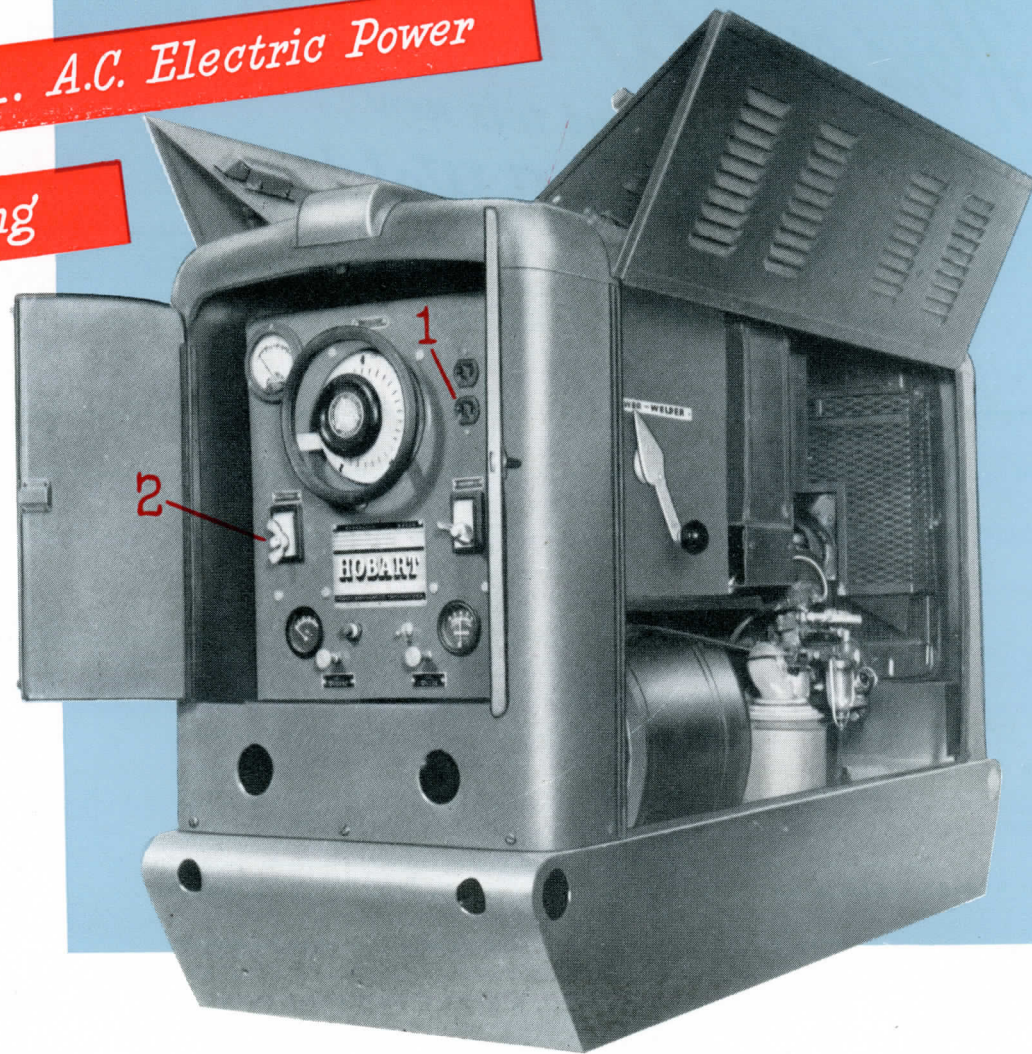
1. A.C. Electric Power

2. A.C. Arc Welding

You get two machines in one when you have the new Hobart Arc Welder-AC Power Unit Combination—a new, exclusive Hobart design.

By throwing the switch to "Welder," you get a full capacity AC arc welder that makes you independent of power lines. Operators who use it say it starts and holds the arc easier and has better characteristics than any AC welder they used.

By throwing the switch to "AC Power," you immediately convert it to a Gas Drive AC Power Unit that you can use for emergency power in case of normal power failure, or as a power source for flood lights and electric tools where no other electric power is available. It gives you single phase, 110 volt, 60 cycle AC power sufficient to run electric lights, flood lights, electric drills, grinders, saws, hammers, compressors, paint sprayers and elevators, as well as for emergency use on motors, blowers, heating and cooling appliances, or other equipment found in average use.



Models

*GA2005-S

GA3005-S

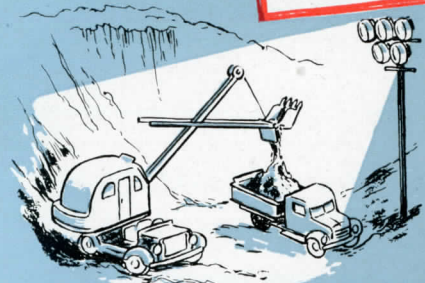
*WA2005-S

WA3005-S

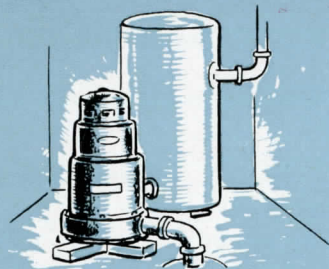
	Welder Rating	Welding Range (amps)	Power Rating 110V-1 Phase	Operating Speed	Engine	Piston Displacement	Bore & Stroke	Cooling System Capacity	Number of Cylinders	Brake Horsepower (1800 rpm)	Fuel Tank Capacity	Dimensions			Approximate Shipping Weight
												L	W	H	
	200 amps	40 to 250	5 KW	1800 rpm	Willys Jeep	134 cu. in.	3 1/8" x 4 3/8"	2.5 gal.	4	32.5	4.5 gal.	55"	22"	38 1/2"	1175 #
	300 amps	60 to 400	7.5 KW	1800 rpm	Chrysler	236.6 cu. in.	3 7/16" x 4 1/4"	5 gal.	6	62.	18.5 gal.	69"	24"	41"	2100 #
	200 amps	40 to 250	5 KW	1800 rpm								22"	16 1/2"	22 1/4"	400 #
	300 amps	60 to 400	7.5 KW	1800 rpm								27"	19"	30"	650 #

*GA Series is with Gas Engine
WA Series is generator only less engine

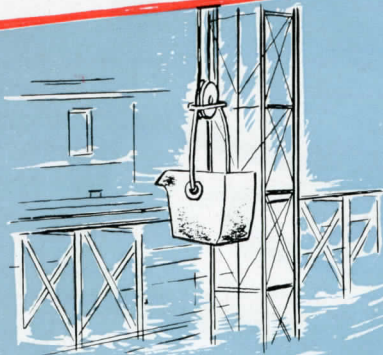
Look what you can do with this new HOBART AC-A.C.



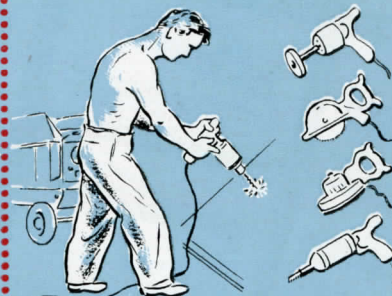
Electricity for flood lights



Power for Deep Well Pumps



Power for Concrete Elevator



Power for all small tools



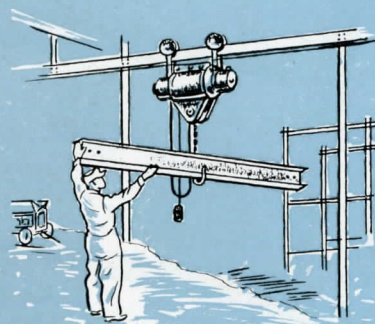
Operates Electric Paint Sprayer



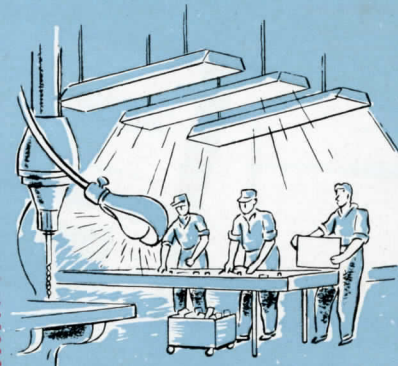
All Kinds of Arc Welding



Fine for carpenter shops



220 power for large equipment



For temporary lighting



For emergency pumping

300 amp. A.C.-A.C. for Heliarc Welding

The Hobart 300 Ampere AC-AC Gas Drive Arc Welder and Power Unit is ideal for "Heliarc" welding in the field where electric power is not available. By adding high frequency stabilization, a pilot spark circuit for arc starting, and water and gas solenoid valves to this unit, it becomes a portable "Heliarc" welder for inert-gas-shielded welding of magnesium alloys, aluminum, stainless steels, high carbon and other alloy steels, brass, Monel, Everdur, and other hard-to-weld metals.

"BUILD YOUR OWN" COMBINATION AC-AC ARC WELDER & POWER UNIT

By coupling this generator to a used auto engine and chassis, you can have a complete, portable AC arc welder and AC power unit. It lets you operate where there are no power lines available, or it can furnish you emergency electric lights and power service in case of normal power supply failure. By throwing the switch on the side to "Welder" you get full capacity AC welding current. By throwing the switch to "AC Power" you get full capacity AC, single phase, 110 volt power supply to operate lights, electric tools, blowers, appliances, etc.



HOBART *Standard Set of Accessories*

Welding Cable:

High grade, rubber covered cable of correct size to suit the machine for which it is recommended. Core is made up of a very large number of fine copper wires, making it exceptionally flexible and easy for the operator to handle. Will last much longer than the cheap cable sometimes offered at so-called "bargain" prices. Size and length shown below.

Ground Cable:

The same high grade, flexible cable as described above. Experience has shown it is as poor economy to use inferior cable for the ground connection as for the welding connection. Size and length shown below.

Electrode Holder:

Special Hobart design, exceptionally light in weight and cool to handle. Well balanced. Current carrying main jaw is copper and gripping jaw is brass, both cadmium plated. No. 333 (for heavier currents) has special alloy inserts in both jaws. See below for type with each accessory group. Holder comes attached to one end of welding cable, with copper lug on other end for connecting to machine.

Ground Plate:

Steel plate of convenient size, as illustrated, for con-

venience in clamping to welding bench or work. Bolted to copper lug on end of ground cable. Copper lug on other end of cable for connecting to machine.

Head Shield With Glass:

Hobart's popular seamless type head shield of special fibre, with adjustable head band and chin rest. Comfortable and convenient, while offering ample protection. Complete with arc proof glass and clear cover glass.

Wire Cleaning Brush:

Wood back brush with stiff wire bristles for cleaning work metal and weld deposit.

Welding Electrodes:

Liberal sample of various type Hobart Electrodes, shown in pictures, comes with the Hobart Welder whether or not you purchase the Standard Group Welding Accessories.

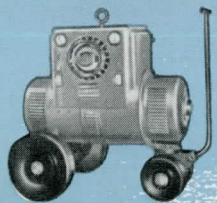
Operating Instructions:

Complete instructions (shown in pictures attached to front panel) come also with every Hobart Welder whether or not you purchase the Standard Group Welding Accessories.

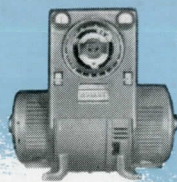


Catalog Number	Recommended for Use With		Rotating Type DC or Transformer Type AC	Welding Cable Included		Ground Cable Included		Electrode Holder Hobart Catalog No.	Ground Plate, Bolt, Nut, Washers (Factory No.)	Head Shield With Glass Hobart Cat. No.	Wire Cleaning Brush Hobart Cat. No.
	American Rating (Amps)	European Rating (Amps)		Size*	Length	Size*	Length				
212	150	15/200	DC	#2	30 ft.	#2	30 ft.	332	CW-17	461	267
	200	40/300									
325	300	50/400	DC	#1/0	30 ft.	#1/0	30 ft.	333	CW-17	461	267
326	400	60/600	DC	#2/0	30 ft.	#2/0	30 ft.	333	CW-17	461	267
327	600	70/800	DC	#3/0	30 ft.	#3/0	30 ft.	451	CW-17	461	267
411	180	20/180	AC	#2	30 ft.	#2	30 ft.	332	CW-17	461	267
	200	20/200									

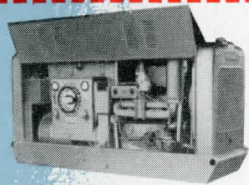
*NOTE: Cable sizes are suitable for the indicated welding capacities, with the indicated 30 ft. cable lengths (Complete welding circuit 60 ft.). If longer cables are to be used, it may be found advisable to order cables of larger size. Recommendations as to size for various lengths will be given on request.



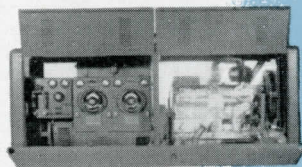
ELECTRIC DRIVE PORTABLE. Arc welders are the most productive at lowest operating cost and should be your choice for production, maintenance and general shop welding where electric power is available.



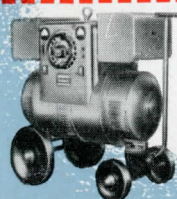
STUD-WELDING. Hobart Arc Welders, because of their separate excitation and higher open circuit voltages, let you get the maximum advantages from the new time and money saving techniques of stud welding.



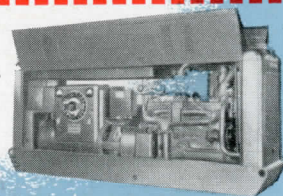
300 AMP. GAS DRIVE WELDER for heavy duty welding in the field where electric power is not available, and low cost operation is essential. A factory built job needing only the "Push" of a starter and adjustment of Multi-Range Control to do any arc welding job.



DUAL OPERATOR WELDER has two 300 ampere welding generators mounted on a common shaft for two operator use. Paralleling switch gives 600 amperes for heavy duty welding and cutting.

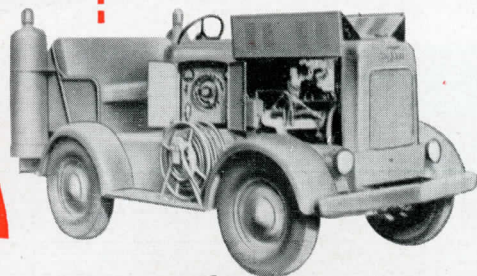


CHARGER-WELDER is designed especially for charging railway coach and Pullman car batteries as well as for electric arc welding. This Charger-Welder is for single or dual circuits for charging 16 or 32 cell lead-acid or 25 or 50 cell nickel-iron batteries.



CONVERTIBLE GAS AND ELECTRIC. An electric motor driven welder is connected to a gasoline engine by a free wheeling coupling so you can take advantage of low cost electric power or operate the welder with a gasoline engine when electric power is not available.

Here are seven other noteworthy **HOBART** Arc Welders
Picked from the complete Hobart Welder line. There is a model for every purpose.



New HOBART Weldmobile

A complete portable welding shop including a 300 ampere arc welder and accommodations for oxy-acetylene welding equipment. A single 6 cylinder industrial engine propels unit and powers welding generator.



Your men can become better weldors!
HOBART training is quick, intensive, interesting.

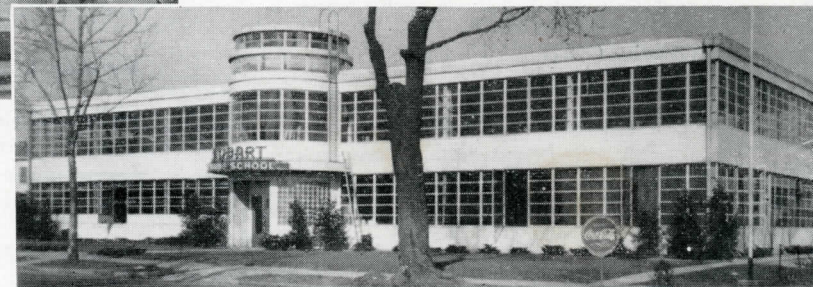
Hobart offers the best of training through its modern Trade School, organized to promote the interest of the welding industry. You learn in a modern steel and glass building especially designed as a welding school. Use the latest, most modern, and complete equipment.

Learn all phases of welding from instructors of wide experience in practical work as well as in teaching others. Low cost. Approved under G. I. Bill of Rights. Write today for detailed information.



Above, students receive illustrated talk on modern arc welding and attend lectures in this modern classroom.

Right, Hobart Trade School is the most modern in America.



1.



2.



3.



4.

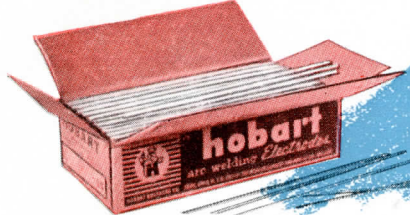
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